

# Priyatham (Pri) Bazaru

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## SUMMARY

Technical Lead and Web Developer with 6+ years of experience developing and scaling secure, data-driven platforms for finance, SaaS, and education. Hands-on leader skilled in **Python, C#, and TypeScript** with a proven track record of shipping complex integrations, managing cross-functional teams, and mentoring engineers to deliver products that drive measurable business outcomes. Adept at connecting engineering, product, and partner organizations to accelerate growth and build scalable technical ecosystems.

## CORE SKILLS

**Programming Languages:** JavaScript (ES6+), TypeScript, C#, Java, HTML/CSS, SQL

**Libraries & Frameworks:** React.js, Redux, Next.js, Tailwind CSS, ASP.NET Core, Entity Framework, Spring Boot, Spring MVC

**Technologies:** RESTful APIs, GraphQL, JWT/OAuth2, Docker, Kubernetes, Serverless (Azure Functions, AWS Lambda), Microservices

**Databases:** PostgreSQL, SQL Server, MySQL, MongoDB

**Tools:** Git, GitHub, GitLab, Azure DevOps, GitHub Actions, Swagger/OpenAPI, JUnit, Jest, Cypress

**Practices:** Agile/Scrum, Test-Driven Development (TDD), CI/CD, Code Reviews, Accessibility (WCAG), Responsive Design

## EDUCATION

**Master of Science in Computer Science – California State Polytechnic University, Pomona**

2022 – 2024

**Bachelor of Technology in Computer Science and Engineering – Mahatma Gandhi Institute of Technology**

2018 – 2022

## EXPERIENCE

### Technical Lead – New Frontier Funding

2025 – Present

- Designed and implemented microservices-based architecture using **.NET Core, FastAPI**, and SQL Server for loan processing workflows.
- Built secure data pipelines and automated reporting modules integrated with **Tableau** for compliance and analytics.
- Developed RESTful APIs for financial transactions, authentication, and partner integrations; improved API response times by 30%.
- Implemented CI/CD pipelines using **GitHub Actions** and Azure for continuous deployment and monitoring.
- Collaborated with business stakeholders to map process flows, document specifications, and train end-users.
- Designed and implemented backend microservices using **Python (FastAPI)** and modular architecture principles to support scalable financial platforms.
- Collaborated across product and data teams to model customer and transaction data, enabling predictive analytics and KPI dashboards.
- Developed and maintained **RESTful APIs and event-driven services** that integrated with partner banking and payment systems.
- Applied software design patterns (Factory, Repository, Adapter) to reduce code complexity and improve testability.
- Refactored legacy modules into a **microservices-based architecture**, improving deployment flexibility and reducing coupling.
- Explored integration of AI-driven insights into reporting pipelines, collaborating with data scientists to prototype ML-based credit scoring.
- Mentored developers in clean coding practices, version control, and continuous integration methodologies.

### Technical Lead & Credentials Specialist – Innovation Incubator, California State Polytechnic University

2022 – 2025

- Led end-to-end development of a digital credentialing platform using **ASP.NET, C#, and SQL Server**, serving 30,000+ users.
- Modeled user, credential, and event data for academic validation systems using ERD and schema versioning standards.
- Architected system modules with **microservices** and event-driven design for independent scaling and modular deployment.
- Implemented test-driven development (TDD) practices, achieving 85% code coverage and consistent CI/CD integration.
- Collaborated with UI teams to integrate React.js front ends with Python and Node.js APIs, ensuring seamless cross-service communication.
- Created dynamic dashboards and **data visualization interfaces** using SQL, Tableau, and React.js.
- Implemented role-based authentication, SSO, and user access modules following institutional data security standards (FERPA).
- Authored internal design documents and code review guidelines to standardize coding patterns and lifecycle management.
- Collaborated with faculty and IT to enhance system reliability and integrate with ERP and HR systems.

### Software Engineer – Cognizant, Cisco, Cantilever Labs, Freelance

2019 – 2022

- Cognizant – Programmer Analyst:** Built enterprise applications using **Java Spring Boot and React.js**, following microservices and REST principles.
- Developed enterprise-grade web applications using **ASP.NET MVC, SQL Server**, and JavaScript.
- Cisco Networking Academy – Cybersecurity Intern:** Developed secure internal tools for network visualization and router and domain configurations.
- Cantilever Labs – Web Developer Intern:** Designed and deployed a serverless automation pipeline using AWS Lambda and Python, improving efficiency by 15%.
- Freelance Developer:** Built full-stack MVPs with Python, Node.js, and React, implementing CI/CD workflows and containerized microservices for deployment on AWS.

## PROJECTS

### Serverless AI-Powered Lead Pipeline

2024

- Designed and implemented a real-time, **AI-driven lead processing system** using **Go, PostgreSQL, and Google Cloud Platform (GCP)**.
- Integrated **GPT-based text classification** models to automatically categorize and route leads based on customer intent and historical engagement data.

- Developed Slack and HubSpot API integrations for automated notifications, reporting, and CRM synchronization.
  - Deployed using containerized microservices and asynchronous queues for high throughput and reliability at scale.
- Drone Telemetry Interfaces (in collaboration with Northrop Grumman)** 2023
- Built distributed telemetry interfaces for UAV/UGV ground control systems using **gRPC** and a legacy **.NET MVC** architecture.
  - Implemented low-latency communication protocols for sensor data streaming, command synchronization, and fault-tolerant message handling.
  - Contributed to testing and validation pipelines for real-time telemetry and mission-critical communications.
  - Collaborated with engineers at Northrop Grumman to optimize system performance under simulated operational conditions.

- Alzheimer's Detection Android Application** 2021
- Developed a mobile application in **Java** for early Alzheimer's detection using cognitive test patterns and interactive user assessments.
  - Built a **.NET-based backend API** for secure data storage, authentication, and longitudinal user tracking.
  - Implemented user progress visualization and data export functionality for healthcare professionals.
  - Optimized app performance and security, ensuring HIPAA-compliant data transmission and storage.

## **PUBLICATIONS & WHITE PAPERS**

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- *Bazaru, P.S.C. (2024). Harnessing the Crowd for Privacy-Enhanced Cloud Monitoring and Deployment.* M.S. Thesis, Cal Poly Pomona.
- *Bazaru, P.S.C. (2021). Serverless Architecture for Bulk Email Management.* arXiv: 2201.11216.
- **Innovation Incubator Annual Reports (2022–2025):** Authored white papers on credential scalability, AI-driven engagement, and user analytics.
- *Bazaru, P.S.C. (2021) A Major Project Stage-I report on Decentralized Rental System using Blockchain* Mahatma Gandhi Institute of Technology.

## **SPEAKING ENGAGEMENTS**

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- Badge Summit 2024 – *Badge Me If You Can*
- Winter Institute 2022 – *Student Experience of Digital Badging*
- Summer Institute 2023 – *Digital Credentials Implementation*
- Summer Conference 2025 – *Using AI Effectively in Higher Education.*
- React Workshop – *React bootcamp*

## **PROFESSIONAL SOCIETIES**

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### **Planning Committee for AI summer institute 2025**

- Facilitator and committee member trying to implement and make use of AI in education sector by leading the conference track. Was a speaker on AI in higher Education

### **Digital Credentials and Badging Advisory Board**

- Active member in the standardizing of digital credentials criteria and institutionalizing badging policies and competencies

### **PolyX Planning Committee**

- Facilitated PolyX showcase events along with incorporation of digital badges and student participation in Innovation Incubator initiatives.

### **LOGRAR Emerging Teaching Professionals**

- As an L-ETP fellow, I actively immersed myself in a series of workshops designed to empower emerging educators. This intensive mentoring experience equipped me with the essential skills and knowledge to excel in both educator and student advisor roles.

### **Computer Science Society of India**

- Dedicated to my community, I've actively contributed to the local chapter for 4 years, planning events and workshops that engaged over 500 people

### **AWS Founders Program**

- Registered as part of budding startup to accelerate growth and receive credits for development of applications and be part of an active community of various startups and external stakeholders receiving AWS credits to facilitate the application development

### **Google Student Developer Club**

- Part of problem-solving and application development community of students around the world participating in multiple events including conferences, competitions and other local educational charities.

## **CERTIFICATES**

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### **Associate Cloud Engineer**

Google Cloud Platform

- Demonstrated foundational knowledge and practical skills in deploying, securing, and managing cloud solutions

### **Deep Learning Specialization**

DeepLearning.ai

- Developed expertise in advanced deep learning architectures (e.g., GANs, transformers) using Python and Keras.

### **CCNAv7: Introduction to Networks**

Cisco Networking Academy

- Analyzed processes and recommended changes to accommodate edge cases to enhance operational efficiency and adaptability, ensuring processes can handle diverse scenarios on campus WiFi network

### **Using Python for Research**

HarvardX

- Mastered libraries like NumPy, Pandas, Matplotlib, and scikit-learn for data analysis, visualization, and machine learning for scientific hypothesis and evaluation

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