

AKHIL PATIL BAGILI

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[🐙 https://github.com/Akhil-Patil-Bagili](https://github.com/Akhil-Patil-Bagili) [🔗 Portfolio Website](#)

EDUCATION

San Jose State University (SJSU)

Aug 2022 - May 2024

Master of Science in Computer Science

- **Coursework:** Software Project, Database System Principles, Topics In Machine Learning, Reinforcement Learning.

B V Raju Institute of Technology

Aug 2015 - Aug 2019

Bachelor of Science in Computer Science and Engineering

- **Coursework:** Data Structures, Computer Networks, Operating Systems, Java Programming, C programming.

EXPERIENCE

Cognizant

Feb 2022 - Aug 2022

Full Stack Software Developer

- Engineered a React and Tailwind CSS-driven analytics dashboard for a restaurant company, elevating data visualization efficiency by 40%.
- Refined a Node.js application by integrating custom middleware, input validations, and JWT authentication, enhancing security and showcasing advanced backend development expertise.
- Orchestrated deployment of scalable cloud solutions using AWS services (EC2, S3, CDN), optimizing resource utilization and operational cost, contributing to a 20% improvement in system resilience and performance.

Wipro Technologies

May 2020 - Feb 2022

Backend Developer

- Boosted backend performance for an oil and natural gas company's project using Node.js, achieving a 20% improvement in response times through SQL query optimizations.
- Pioneered the use of Redis for state management and session caching, reducing server response times and supporting the scalability of the application under peak loads.
- Directed the adoption of CI/CD pipelines for the same project, leveraging Jenkins and Docker to cut deployment times by 50% and advance DevOps methodologies.

Wipro Technologies

Nov 2019 - May 2020

Oracle Cloud Technical Developer

- Leveraged PL/SQL to automate critical financial processes, boosting efficiency and accuracy in data operations, and reducing manual intervention by 40%.
- Led SQL optimization, achieving reduced report load times through improved code performance, earning client praise for efficiency improvements.
- Migrated from Oracle EBS to Oracle Cloud, focusing on Oracle Financials and reporting tools, ensuring seamless transition.

SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, PL/SQL.

Frontend Web Development: React, Next.js, Bootstrap, JQuery, Tailwind CSS, HTML5, CSS3.

Backend Web Development: Node.js, Django, Flask, Express, REST API, Cloudflare Workers.

Database Technologies: PostgreSQL, MongoDB, MySQL, Oracle, Redis.

DevOps: Docker, Kubernetes, CI/CD, AWS(EC2, S3, CDN, LB, EKS), Nginx, Load Balancers.

Other Tools and Technologies: Git, Github, Bash Programming, Postman, Visual Studio Code, Toad, Putty.

Certifications: 0-1 MERN Full Stack Web Development [🔗](#) Full Stack Web Developer [🔗](#) , Oracle PL/SQL Developer [🔗](#)

PROJECTS

GitInsight [🔗](#)

Nov 2023 - Feb 2024

Revolutionizing Git Insights

San Jose, CA

- Created an application offering deep insights into Git commits for non-technical stakeholders to understand development workflows.
- Tech Stack: React.js, Tailwind CSS, Flask, Astra DB, GenAI, RAG modeling, OpenAI's GPT model.

Expense Tracker [🔗](#)

Jan 2023 - Mar 2023

A Personal Finance Management Application

San Jose, CA

- Developed an application for personal finance management, allowing users to track incomes, expenses, and analyze spending habits either through recorded data and graphs or through an AI chat assistant.
- Tech Stack: React.js, CSS, Django, OpenAI's GPT model, PostgreSQL.