Yukta Sarode

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EDUCATION

Master of Science in Computer Science **May 2024**
Arizona State University, Tempe, United States 3.97 GPA
Courses: Combinatorial Algorithms, Software Security, Cloud Computing, Software Engineering, Software Quality Assurance and Testing

Bachelor of Technology in Information Technology **May 2022**
Veermata Jijabai Technological Institute (VJTI), Mumbai, India 3.62 GPA

TECHNICAL SKILLS

Programming Languages: Python, Java, TypeScript, JavaScript, Solidity | **Front-End:** HTML, CSS, React, Next.js, D3, Leaflet, Figma
Tools, Databases, and OS: Node, Express, Git, JIRA, Agile, JUnit, Django, Docker, AWS, Blockchain, PostgreSQL, PostGIS, MongoDB, Linux
Certificates: SAP Cloud Analytics Certification for Data Analysis, QwikLabs Google Cloud Platform Certification

PROFESSIONAL EXPERIENCE

Full Stack Engineer: mBolden Consulting, United States **July 2024 – Present**
- Spearheaded client discussions to gather project requirements, reducing ambiguities and improving developer efficiency by 10%.
- Developed a scalable, testable and responsive frontend using **React.js, TypeScript, Tailwind CSS, React Hooks** and custom **ShadCN** components for consistency, reducing development time by 95%, and executed the platform infrastructure
- Architected on-demand data loading backend workflow with **Node.js**, **PostgreSQL**, **Prisma, REST APIs**, reducing load time by 80%.
- Designed the database schema with indexing strategies and **ORM** to eliminate redundancy, optimizing storage utilization by 40%.
- Implemented a modular authentication system using **JWT** and enhanced user experience through real-time feedback mechanisms.
- Used **GIT** for repository management, mentoring the team through code reviews and **integration testing**, reducing bugs by 90%.
- Led and collaborated with the team using **JIRA** for end-to-end product development life cycle through the **SDLC**.

Full Stack Engineer: Arizona State University, United States **September 2023 – May 2024**
- Created a **Power Automate** workflow for **SharePoint** to generate notifications, resulting in a 70% reduction in manual update tasks.
- Designed user interface in **WordPress** using **JavaScript, SmartSheet** as database to improve user experience by 20%.
- Developed and optimized **WordPress** webpages, resulting in a 20% increase in website traffic with **SEO** best practices.
- Collaborated with interdepartmental teams to develop **full-stack applications** using **JavaScript, ColdFusion**, and **Fomantic**.
- Constructed **SQL** stored procedures for sensitive student data and optimized queries to improve performance by 15%.
- Formulated documentation and troubleshooting guides using **HelpSmith,** reducing resolution time for support tickets by 50%.

Software Engineer Intern: Fiserv, India **June 2021 – July 2021**
- Spearheaded the development of a scalable and maintainable automation solution for the financial services applications team, resulting in an 85% improvement in document formatting efficiency using **Python, python-script,** and **python-docx** library.
- Leveraged **SDLC** for iterative development, gathered user requirements from cross-functional teams to address business objectives, leading to a 40% reduction in development time. Conducted automated unit testing using **Pytest**, achieving a 95% test coverage.

RELEVANT PROJECTS

Image Recognition-as-a-Service, *Course Project* *(Link)* **January 2024 – May 2024**
- Deployed a face recognition model on AWS using **RESTful APIs** in **Python** with **Flask** and **cloud-native** services like **EC2, SQS**, **Cloud Watch**, **S3**, **Lambda,** and **ECR** with **Docker.**
- Designed a scalable and serverless pipeline, with an end-to-end latency of processing 100 concurrent requests under 100 seconds.

Graph Manager, *Course Project* *(Link)* **August 2023 – December 2023**
- Created a **Java** application for manipulating DOT-format graphs and used DFS and BFS algorithms for graph searching with **JGraphT**.
- Integrated **CI/CD** pipelines through GitHub actions, **maven** as a build tool, **Git** for version control, and **JUnit** for **unit testing**.
- Ensured code quality by implementing refactoring techniques like template patterns and strategy patterns, improving maintainability by 35%, and reducing technical debt by 20%.

Forward Gradient Algorithm in a Distributed Setting, *Course Project* *(Link)* **January 2023 – May 2023**
- Implemented the forward gradient algorithm using **Python** and CNN with **Pytorch** to improve model training by 10%.
- Employed batch processing and data smoothening on the MNIST dataset and used **TensorBoard** for visualization.
- Configured a decentralized environment to simulate distributed training scenarios, improving resource utilization by 15%.

Edu-Pro: Blockchain-based Education System, *Capstone Project* *(Research Paper Link)* **June 2021 – May 2022**
- Designed a Google Classroom clone with web3 integration using **Solidity** for smart contracts and **Ethereum** as blockchain.
- Developed components in **React.js** and used **Express.js** REST APIs and **MVC** architecture for end-to-end application development.
- Implemented **BERT** model from hugging face with similarity score using **Python** to reduce professors' grading effort by 90%.