PRITHAM SRIRAM GOVINDARAJ

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EDUCATION

University of Illinois, Urbana-Champaign — Urbana, Illinois
Master in Computer Science; GPA: 4.0/4.0 — August 2022 - December 2023
Coursework: Database Systems, Applied Machine Learning, Deep Learning, Cloud Computing

College of Engineering Guindy, Anna University — Chennai, India
Bachelor of Engineering - Computer Science; GPA: 3.71/4.0 — July 2017 - June 2021
Coursework: Algorithms and Data structures, Databases, Compiler Design, Computer Architecture

SKILLS

Languages: Python, Java, C/C++, GoLang, TypeScript, D/HTML, JavaScript, XML, PowerShell, CSS, SQL, Perl
OS, Frameworks and Libraries: Java, Angular, Spring Boot, PHP, OS/Unix, AWS, GCP, AZURE, JUnit, Selenium, REST, React Native, React Mobile, NodeJS, Apache Kafka, RabbitMQ messaging queues, Kubernetes, CI/CD pipeline
Tools, Databases and Platforms: github, gitlab, bitbucket, Docker, Kubernetes, Jenkins, JIRA, GIT, Splunk, MySQL

INDUSTRY EXPERIENCE

National Center for Supercomputing Applications — LLaVA Data Viz — Urbana, IL
GRA, AI Software Engineer | React, Javascript, CUDA, Python, Pytorch, Pandas — January 2023 - Present
- Fine-tuned multi modality LLaVA (LLM + Vision) for interpreting graph, plot, and chart images to aid visually challenged users, using datasets generated via Matplotlib and MATLAB.
- Explored and implemented strategies to instructions tuning and prompt engineering, enhancing zero-shot learning capabilities for improved performance.

Interactive Brokers LLC — Greenwich, CT
Software Engineer Intern | SLDC, MVC, Java, Spring, Vue, UNIX/Linux — June 2023 - August 2023
- Implemented an advanced WYSIWYG text editor, integrated with the database, to replace an HTML text box, streamlining documentation processes for the internal marketing team.
- Developed secure APIs employing diverse authentication strategies to efficiently retrieve bulk data, ensuring robust data protection measures

Chronus (SaaS Software) — Chennai, India
Software Development Engineer | Agile / Sprint, Git, Ruby, React, HTML, CSS, and JavaScript — June 2021 - June 2022
- Revamped the company-wide custom reporting applications, reducing latency by **80%** with Amazon Redshift and providing automation to real-time processing, boosting data retrieval speeds by **60%**.
- Resolved a substantial backlog of bugs by debugging across frontend, backend, and cloud components, cutting overall bug count by **30%** and implementing preventive testing measures to ensure system robustness.
- Spearheaded code and design reviews to modernize the login/signup architecture. Played a pivotal role in agile feature/product design process process working with cross-functional teams and Business stakeholders. Enhanced system modularity and integrated **SAML, OAuth** and 4 other authentication.
- Implemented a comprehensive testing framework, incorporating Unit Test and Integration Test, enhancing overall system reliability in Continuous Integration and Continuous Development (CI/CD).
- Enhanced application accessibility by identifying and remedying accessibility issues using JavaScript and ARIA labels across components such as chat, matching, and admin mailing pages, resulting in WCAG 2.0 compliance
- Improved module maintainability by 15%, increased code coverage by **20%**, and streamlined the codebase, resulting in a **50%** reduction in lines and addressing code quality issues.

Fidelity Investments — Chennai, India
Software Engineer Intern | Java, MYSQL / Oracle database, Angular, Git, Typescript, Splunk — June 2020 - July 2020
- Automated manual information retrieval, enabling dynamic graphical data representation and advanced analysis, thereby enhancing the business team's data analysis capabilities.
- Centralized 1 million log data entries into a structured database with microservices architecture, improving data accessibility and query efficiency for large-scale financial aggregators.
- Revamped server status access by integrating RESTful APIs, significantly improving the user experience for technical teams.

PROJECTS

Github Open Source Contribution | *Java, Maven, Gradle, Kotlin, Groovy* — August 2023
- Detected Bugs: 42 • Resolved Bugs: 31 • Acceptance Rate: 100%
- Notable Organizations: Google's OpenRefine, Apache, Apollo

Cloud Computing Project | *AWS, AWS Lambda, Docker, Kubernetes* — January 2023
- Developed a comprehensive cloud-based solution using Amazon AWS, AWS Lambda, HDFS, and DynamoDB
- Implemented a serverless architecture with AWS Lambda for scalable processing and integrated DynamoDB for efficient data management.
- Utilized HDFS for large-scale data storage, enhancing data availability and reliability.