MIHIR A. SANGAMESWAR

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EDUCATION

University of Virginia, College of Arts and Sciences – Charlottesville, VA **May 2024**

Bachelor of Arts in Computer Science and Economics

- Coursework: Machine Learning, Mobile Application Development, Advanced Software Development, Introduction to Cybersecurity, Algorithms, Program and Data Representation in C++.

EXPERIENCES

Bank of America, Full Stack Web Developer – Charlotte, NC **July 2024 – Present**

- Developed and maintained five internal applications for the Background Service Investigation team, leveraging Java Spring Boot for the backend and Angular for the frontend within Eclipse and VS Code.
- Designed and implemented RESTful APIs that handled over 50K daily requests across microservices, enhancing scalability, reliability, and data integrity while enforcing client- and server-side validation.
- Gained hands on DevOps experience by managing CI/CD pipelines with Bitbucket and Jenkins, optimizing artifact management with Artifactory, and automating deployment and infrastructure provisioning using Ansible and Kubernetes.
- Ensured code quality by writing JUnit test cases and addressed major code smells identified by SonarQube.

Emotion and Behavior Lab, UVA, Full Stack Mobile Engineer – Charlottesville, VA **September 2021 – April 2023**

- Enabled the study, design, analysis, and simulation of community friendships alongside social and economic mobility parameters by designing, implementing, and launching a full stack React Native mobile application.
- Drastically improved user experience by modeling screens after the Game Boy and Ketchapp apps to maximize the game-like feel with Figma.
- Allowed administrators to edit small features of game (number of players, types of roles, and different icons) by using Google Sheets API so administrators wouldn't have to edit the code base.
- Ensured app quality as a contractor by presenting weekly to 20+ stakeholders including professors and university research assistants.

PROJECTS

C-- | *C++, LLVM*

- Designed a C like toy programming language with scoped variable binding, control flow, and caller-callee syntax that was parsed using recursive descent.
- Implemented the middle end using LLVM and used multiple optimizations such as dead code elimination, instruction combining, and constant folding resulting in a 10% performance boost.
- Extended the language with an optimization pipeline and JIT compiler support, enabling programs to run directly for faster iteration and real time feedback.

Job Classifier | *Python (Flask), Angular, Gemini API*

- Developed a web scraping application to search for new job postings on numerous company websites, classifying them via type, requirements, and location using Beautiful Soup, Selenium, and Postman.
- Classified the webpage using a mixture of Gemini for job details and Regex, exported it to a PostgreSQL database and made it available online via Flask API.
- Used Angular Services to create a search engine to pull the data from the API and containerized it using Docker and deployed it on Google Cloud Console.

Net Prophet | *Python, React Native*

- Developed a cross platform mobile application that predicted the outcome of Spring 2023 NBA games leveraging React Native as the frontend technology and Python with Firebase as the backend.
- Implemented a data scraping solution utilizing Beautiful Soup, enabling the app to gather comprehensive NBA statistics and resources without the need for costly third-party APIs
- Developed an ensemble model utilizing decision tree, SVM, logistic regression, random forest, and Gaussian Naïve Bayes classifiers to collaboratively predict outcomes with 52% accuracy.

TECHNICAL SKILLS

Programming Languages:	Typescript, JavaScript, CSS/HTML, Java, Python, C++, C#, Swift, PHP, SQL, SAS/STATA
Technologies:	Angular, React, .Net, React Native, Django, Next.js, Tailwind CSS, Spring
Tools:	Kubernetes, Docker, Jenkins, Ansible, LLVM, CUDA, PostgreSQL, Artifactory, SonarQube