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, Software Engineer – Charlotte, NC　　　　　　　　**July 2024 – Present**
- Developed and maintained 5 different applications in the background service investigation team using Java Spring boot for the backend and Angular for the frontend using Eclipse and VS Code, respectively, for the development environment.
- Ensured code quality by writing J-Unit test cases and addressed major code smells identified by SonarQube as well as implemented server side validation using the javax.validation library.
- 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.
- Delivered 1+ new features per sprint for both the legacy application and next gen version of product.

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 Gameboy 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 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, scaler replacement of aggregates, and constant folding resulting in a 20% performance boost.
- Integrated contextual error handling with line numbers and token highlights.

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 for other important information, exported it to a csv, and made it available online via Flask API.
- Used Angular services to create a robust search engine to pull the data from API and deployed both services using Docker and Google Cloud Console.

Net Prophet | *Python, React Native*
- Developed a cross platform mobile application that predicted the out of Spring 2023 NBA games leveraging React Native as the frontend technology and Python with Firebase as the backend.
- Implemented a robust data scraping solution utilizing Beautiful Soup, enabling the app to gather comprehensive NBA statistics and resources without the new 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 AND CERTIFICATIONS

Programming Languages: Python, C++, C, C#, PHP, Swift, JavaScript, TypeScript, Java, CSS/HTML, SAS, Stata
Software and Tools: LLVM, MLIR, Node.js, TensorFlow, PyTorch, NumPy, Pandas, Linux, Matplotlib, Seaborn
Frameworks: .Net, React Native, React, Angular, Django, Next.js, Tailwind CSS
Certifications: J.P. Morgan Software Engineering Virtual Experience, Machine Learning with Python by IMB, SAS programming One Essentials