Franklin Amaya

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TECHNICAL SKILLS & CLEARANCE

- **Skills:** Java, JavaScript, Python, C++, C#, C, HTML, CSS, ReactJS, TailwindCSS, Redux, GraphQL, Apollo, Docker, NodeJS, Django, SQL, noSQL, Graph Databases, Mocha
- **Clearance:** Secret

EXPERIENCE

Deloitte - *Software Engineer*   *January 2022 - October 2022*

SEMOSS
- Built a web application that allows program managers to track Independent Duty Corpsman information through data visualizations using JavaScript, ReactJS, and TailwindCSS
- Leveraged UI/UX design principles to generate mockups, validated designs via demonstrations, and translated design requirements to development tasks for agile team of 5
- Designed a portal which became a central hub for +10 Consolidated Information Center (CIC) applications
- Implemented Section 508 requirements to allow users with disabilities to navigate through the application via screen readers and special keys

DoD - *Software Engineer*   *June 2019 - January 2022*

Financial Investment Analysis Tool (FIAT)
- Guided the development of FIAT, redefining how the Navy International Programs Office analyzes financial contributions per international agreement
- Implemented backend framework using Apollo and GraphQL, as well as built REST APIs in NodeJS and SQL
- Led a +50,000 record database migration from MariaDB to OrientDB, facilitating transition from unclassified to classified environments
- Managed software engineer intern by sharing knowledge in agile methodologies, building APIs, and testing

Planning Resources Interoperability Options & Readiness (PRIOR)
- Collaborated on an Agile team of 5 to create a tool that analyzes strike force configurations, increasing the ability of Strike Force Engineers to precisely measure ship interoperability
- Led system design meetings to solve a data credibility issue, increasing the reliability of strike force analytics
- Ingested +100,000 records into OrientDB, a graph database, from CSV and XLSX files providing ship data
- Implemented automated backend testing using Mocha, targeting functional and non-functional testing, resulting in a 60% reduction in bugs per sprint iteration
- Awarded Outstanding Group Achievement Honor by NAVSEA for substantial team effectiveness, future potential project impact, and contribution to Naval Seas Systems Command's Mission

UVA School of Commerce - *Mobile App Developer Intern*   *June 2018 - August 2018*
- Contributed to the development of a Q&A application for the community of Charlottesville using React Native
- Designed a model to build tables in DynamoDB which successfully holds +100 wishes and answers
- Incorporated Amazon's Amplify library to establish multi-factor authentication leading to increased security

PROJECTS

Dahlgren iLab Hackathon   August 2021
- Worked in a team of 3 to develop AI algorithms for directed energy, hypervelocity projectiles, and air defense
- Used Java to rapidly prototype a heuristic algorithm over a span of 3 days that recommends actions to weapon systems for threat engagements, accomplishing increased air and ship defense

Engineering Capstone   August 2018 - May 2019
- Created a virtual environment to study reinforcement learning driving vehicle using Unity3D engine
- Used Python and TensorFlow to implement, train, and optimize a convoluted neural network

EDUCATION

University of Virginia School of Engineering and Applied Sciences   Charlottesville, VA

Major: Computer Science, B.S.   *May 2019*

CS Coursework: Algorithms, Data Structures, Computer Architecture, Operating Systems, Advanced Software Engineering, Artificial Intelligence, Cloud Computing, UX Design