MILES ENG

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EDUCATION

Duke University, B.S. Computer Science and Global Health   2021 - 2025

- GPA: 3.9
- Teaching assistant for STA199 Intro to Data Science, CS316 Database Systems (Aug 2022 - present)
- Organizations: Partners in Health Engage, Stargazing Devils
- Relevant courses: Design & Analysis of Algorithms, Advanced Web Development, Computer Network Architecture, Graphics Software Architecture, Computer Architecture, Discrete Math for CS

EXPERIENCE

Software Engineer Intern, First American Financial Corporation   June - Aug 2024

- Spearheaded the modernization of a crucial enterprise platform from .NET to React, significantly improving functionality and user experience through the design and implementation of 5+ custom React interfaces
- Configured and integrated security APIs into Salesforce environments, enabling enhanced real-time cybersecurity monitoring and risk mitigation across 14 business units
- Researched and implemented a secure credential management solution that streamlines access for non-human Salesforce accounts, facilitating secure collaboration for the development team
- Assisted in aligning the company's systems with SaaS industry standards by auditing and upgrading security protocols, ensuring compliance with best practices, and improving the scalability and security posture of core applications

Technologies: React, TypeScript, Java, Salesforce development

App Developer Research Fellow, Duke GEMINI Center   Aug 2023 - May 2024

- Developed an open-source multilingual app in React.js to investigate the efficacy of an alternate approach to assessing alcohol use behaviors, based on the Research Domain of Criteria (RDoC) framework
- Employed Agile software development methodologies through weekly stand-ups, implementing 10+ iterative improvements based on feedback from pilot studies at international sites in Brazil, Kenya, and Tanzania
- Facilitated effective communication between app development and non-technical teams, translating research concepts into code and creating detailed documentation to streamline the development process

Technologies: React, JavaScript, Firebase, AWS

Salesforce Developer Intern, Oak Street Health   May - Aug 2023

- Leveraged process automation tools to optimize Salesforce account creation and maintenance processes, reducing manual account provisioning time by 20+ hours per month
- Implemented security controls, roles, profiles, and permission sets in Salesforce CRM to ensure data security and compliance with HIPAA regulations
- Participated in daily Agile stand-ups and assisted in the documentation of business processes, contributing to a clearer understanding of workflow inefficiencies and potential areas for improvement

Technologies: SQL, Salesforce development

PROJECTS

Scholarly

Developed a scalable web application for project management among Duke students, implementing a load balancer and deploying through Kubernetes, with OAuth2/OIDC for secure authentication and a Vue.js user interface

BitBlit — 2D Graphics Engine API

Developed a high-performance 2D graphics engine API in C++ for efficient bitmap rendering, with shader-based coloring and support for complex shape transformations using linear algebra techniques

Playback for Spotify

Developed a personalized music web application in ReactJS, integrating the Spotify API to securely access a user's music preferences and display a responsive, mobile-friendly user interface with TailwindCSS

SKILLS

- Competencies: ReactJS, VueJS, NodeJS, RESTful APIs, Salesforce development, Agile
- Languages: JavaScript, TypeScript, C/C++, Java, Python, HTML/CSS, SQL, R