Scott Nguyen

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Education

University of Washington - GPA: 3.78 **Sep. 2020 – Jun. 2024**
Bachelor of Science in Informatics *Seattle, Washington*

- Client-Side Development
- Server-Side Development
- Cooperative Software Development
- Algorithms and Computational Complexity
- Data Structures and Algorithms
- Design Methods
- Interactive Information Visualization

Experience

National Oceanic and Atmospheric Administration **Jan. 2024 – Jun. 2024**
Fullstack Software Engineer | React, Next.js, Python, Flask, REST API, Tailwind CSS, MongoDB *Seattle, Washington*

- Spearheaded NOAA's internal DEI recruiting web application, hosted on Vercel, delivering a scalable, high-availability platform to streamline intern recruitment and address an aging workforce.
- Developed an accessible, user-first front-end with React, Next.js, and Tailwind CSS, leveraging UI design principles to create interactive data tables, filters, and map visualizations.
- Designed a relational database schema and implemented search and filtering algorithms, reducing data retrieval time for recruitment efforts by 70%.
- Automated data collection using Python web scraper Scrapy and structured data pipelines, cutting manual recruiter workload by 60%.
- Engineered 3 REST APIs for authentication, data processing, and visualization, achieving sub-second response times through optimized query logic and data structures.
- Led weekly Agile/Scrum meetings using Jira to coordinate cross-functional efforts, resolving blockers and ensuring on-time delivery of a robust commerce solution.
- Collaborated iteratively with PMs, UX designers, and stakeholders to clarify requirements, refine features, and align deliverables with user needs.
- Conducted 5 rounds of user research and testing, incorporating feedback to enhance accessibility and usability for diverse user demographics.
- Authored a 30-page comprehensive technical document outlining workflows, database architecture, and APIs, ensuring maintainability and scalability of the application.

Projects

Recognized Student Organization Management | *HTML, CSS, JavaScript, Next.js, Express, REST API, Firebase*

- Constructed a full-stack platform to streamline event coordination, attendance tracking, and communication for student organizations, reducing administrative workload by 50%
- Directed a 4-member development team, setting project timelines, managing workloads, and seamlessly integrating front-end and back-end components.
- Secured access for over 40,000 University of Washington faculty and students by implementing Microsoft Azure Authentication.
- Developed a Node.js back-end with Express and REST API, enabling users to manage clubs, send role-based announcements, and facilitate events using QR code check-ins.

Kinguistics | ***Website*** | *React, Tailwind CSS, Firebase*

- Directed a development team to build a gamified, responsive language-learning platform, leveraging Firebase NoSQL for managing unstructured user and event data.
- Collaborated with three UI/UX designers and two PMs, integrating insights from user research and usability testing to refine features and meet stakeholder goals.
- Constructed secure role-based access control for profile management, event creation, and registration, using Firebase and React.

Moments | ***Website*** | *React, Bootstrap, Firebase*

- Produced a full-stack responsive website for photo and digital art sharing with Firebase authentication and NoSQL for content management.
- Refactored a static HTML/CSS site into an 18-component React app, improving load times by 30% and ensuring responsiveness and scalability.

Technical Skills

Languages: JavaScript, Java, Python, HTML, CSS, SQL, R
Technologies/Frameworks: React, Next.js, Node.js, Express, Firebase, MongoDB, Tailwind CSS, Bootstrap, Flask
Developer Tools: Git, VSCode, Vite, Figma, Postman, Bash, Vercel, Azure DevOps, Microsoft Auth, Heroku, Jira