

SCOTT NGUYEN

Seattle, Washington

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Education

University of Washington

Bachelor of Science in Informatics

Sep. 2020 – Jun. 2024

Seattle, Washington

Relevant Coursework

- 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

January 2024 – June 2024

Fullstack Software Engineer | React, Next.js, Python, Flask, REST API, Tailwind CSS, MongoDB

Seattle, Washington

- Spearheaded NOAA's internal DEI recruiting web application to address the aging workforce, with one-third of staff at retirement age, enabling internal teams to identify intern candidates efficiently.
- Organized weekly scrum meetings with engineers and UI/UX team to discuss progress and blockers and deliver an accessible optimized user user-first solution in 6 months.
- Engineered a modern front-end featuring data tables, interactive filters, map visualizations, and secure password protection using React, Next.js, and Tailwind CSS.
- Utilized Scrum methodology for iterative development, engaging regularly with the UI/UX team and key stakeholders to gather feedback and plan deliverables for upcoming sprints.
- Conducted 5 rounds of in-depth user research and feature testing with NOAA's Head of DEI Recruiting and key stakeholders, resulting in an intuitive platform that addressed the needs of an aging workforce.
- Automated back-end data collection by creating a Python web scraper to reduce recruiters' workload of performing manual research and outreach by 60%
- Designed and implemented a data lookup system, significantly reducing research time for school programs and recruitment efforts by 70%.
- Developed 3 REST APIs for authentication, data scraping and processing, and data retrieval and visualization, with average response times of under 1s to ensure fast, reliable performance.
- Created a 30-page comprehensive document detailing project workflows and guidelines ensuring NOAA team members could easily maintain and extend the application.
- Presented the platform to NOAA recruitment teams and industry experts, engaging 10+ stakeholders and showcasing its potential to streamline NOAA's recruitment strategy.

Projects

Kinguistics | *React, Tailwind CSS, Firebase*

- Developed an innovative, gamified language-learning platform with Firebase NoSQL for managing unstructured user and event data..
- Applied Firebase's role-based access control with a React frontend, requiring user authentication for profile management, event creation, and registration..
- Completed 3 rounds of user research, including interviews and usability testing, while collaborating with the UI/UX team to iteratively refine the platform based on stakeholder feedback.

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

- Constructed a comprehensive full-stack platform alongside architecture design for managing student organizations, streamlining event coordination, attendance tracking, and internal communication across the university.
- Directed a 4-member development team, establishing project timelines, managing workloads, and ensuring the seamless integration of front-end and back-end components.
- Secured user access by implementing Microsoft Azure Authentication, limiting entry to over 40,000 University of Washington faculty and students.
- Engineered a robust Node.js back-end utilizing Express and REST API to empower users to create clubs, manage details, send role-based announcements, and generate events with QR code check-ins.

Technical Skills

Languages: Javascript, Java, Python, HTML, CSS, SQL, R

Developer Tools: Git, VSCode, Figma, Bash, Azure DevOps, Microsoft Auth, Heroku, IntelliJ, RStudio

Technologies/Frameworks: React, Flask, Next.js, Node.js, Firebase, MongoDB, Azure MySQL, Bootstrap, D3.js