Dean Frame

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Education

Northeastern University, Boston, MA   *Sept 2019 - May 2023*
Candidate for Bachelor of Science Degree in Computer Science with concentration in Human-Centered Computing
Honors: University Honors Program, Dean's List, National Merit Scholarship
Relevant Coursework: Software Engineering, Object-Oriented Design, Web Development, Human-Computer Interaction, Computer Systems, Algorithms & Data, Database Design, Networks and Distributed Systems, Foundations of Cybersecurity
Arcadia High School, Arcadia, CA   *Sept 2015 - Jun 2019*
Honors: Salutatorian, Eagle Scout, California Scholarship Federation, Rotary Youth Leadership Award

Experience

Stripe | *Software Engineering Intern* | Seattle, WA   *Jun 2022 - Sept 2022*
• Constructed suite of embeddable React components with TypeScript, GraphQL, and Ruby for use in multiple client apps
• Wireframed user interfaces using Whimsical in accordance with requirements from internal stakeholders
• Wrote and tested gRPC API endpoints using Java, JUnit, Mockito to interface with MySQL and AWS S3 databases
• Implemented a read-through least recently used cache to improve performance of a Git-like resource storage by 10X
• Completed assigned intern project ahead of schedule, and identified and built enhancements outside of original scope

Ginger Labs | *Software Engineer Co-op* | San Francisco, CA   *Jan 2022 - Jun 2022*
• Developed features of the Notability Gallery website using TypeScript, React, Next.js, GraphQL, Node.js, and PostgreSQL
• Designed and implemented first versions of important customer-facing features, including UI for following other users and the UI for uploading user avatars, ensuring functionality and attractiveness for mobile, tablet, and desktop screens
• Reported and fixed issues as the website was launched from beta to all Notability users - 1000x user base growth
• Collaborated with designers to redesign and reconstruct major user-facing features like the home page and search UI
• Mentored other co-ops and interns who were onboarding to the Gallery team through pair programming

Wayfair | *Software Engineering Co-op* | Boston, MA (Remote)   *Jan 2021 - Aug 2021*
• Built internal web application using React, JavaScript, PHP, and MS SQL Server to visualize how a complex filtering algorithm selects product images, displaying filtering rule and remaining images for each step in algorithm's process
• Owned web application project from start to finish: drafted technical implementation proposal, scoped proposal into tickets for Agile development, developed and unit tested the application, and presented updates to stakeholders
• Implemented caching system with PHP to improve product image algorithm performance by 75%
• Contributed to refactoring of 10,000+ line god object into separate services and DTO's using OOP design patterns
• Ran lunch & learn sessions to teach team about new technologies as company transitioned to microservice architecture

Projects

Automated Email Sender   *Jun 2022*
• Created tool with React, TypeScript, Node.js, and Mailgun API to batch send emails to prospective hackathon sponsors
• Led engineering plan and designed UI with Figma, integrating feedback from hackathon sponsorship team
Bookworm   *Dec 2021*
• Developed web application using React, Express, Node.js, and MongoDB to allow users to create and share reading lists
• Utilized the Google Books API to allow users to search for and save book and author information
Holly Avenue Elementary School PTA Website   *Jul 2020*
• Created a website using HTML, CSS, JavaScript, and Bootstrap for a local elementary school parent-teacher association
• Integrated with the Google Translate API to ensure website was readable for non-English speaking families

Technical Knowledge

Languages: TypeScript, JavaScript, HTML, CSS/Sass, GraphQL, Java, Ruby, SQL, Racket, Python, PHP
Systems/Technologies: React, Node.js, Next.js, Jest, Apollo, JUnit, MongoDB, Bootstrap, Git, GitHub, Agile, Scrum