Nelson Dong

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Education

Northeastern University - Khoury College of Computer Sciences   **GPA:** 3.8/4.0 - Dean's List
Bachelor of Science in Computer Science   *Expected May 2025*
Relevant Coursework: Object Oriented Design, Algorithms and Data, Database Design, Theory of Computation, Discrete Structures

Skills

Languages: JavaScript | Java | TypeScript | HTML/CSS | SQL | C++ | Python
Frameworks: Next.js | React | Tailwind | Bootstrap | Java Spring Boot
Technologies: Git | MongoDB | AWS (S3, EC2, ECS, ECR, DynamoDB, ElasticSearch/OpenSearch, CloudWatch) | PostgreSQL

Work Experience

Wood Mackenzie | *Software Developer Co-op*   *Jul 2023 - Dec 2023 | Boston, MA*
- Launched a full stack ETL feature spanning 4 microservices, showcasing popups and forms, along with RESTful API endpoints to fully automate a previously manual process using React, Java Spring, CSS, PostgreSQL
- Revamped a data importing feature using Java Spring and JavaScript, orchestrating functionality across 3 microservices by creating a custom XML file parser for 1000+ nodes and handling requests to AWS S3, PostgreSQL and other microservices
- Spearheaded a knowledge transfer meeting with 8 software developers and product owner, providing in-depth insights into the previously mentioned importing feature, and played a pivotal role in refining three subsequent development stories
- Pioneered free text filtering of task data table with AWS OpenSearch, and developed a script to enable filtering on previous indices in search engines by backfilling necessary fields, substantially increasing search efficiency
- Implemented batching, debouncing, and request back-off to optimize large scale data ETL and ELT processes
- Coordinated monthly manual releases of code and config changes with CI/CD pipelines to multiple production environments
- Participated in daily system and architecture design discussions as part of an Agile team for a new product-wide API service
- Conducted code reviews, browser tests and frequent pairing sessions to ensure code quality

HackBeanpot | *Software Engineer*   *Apr 2023 - Present | Boston, MA*
- Architected entire internal tools backend to Next.js, automating the process of team sorting from a day to a few minutes
- Migrated sorting script to internal tools app, creating numerous API endpoints with MongoDB and Typescript
- Overhauled theme with Framer Motion and Next.js, slashing page load times and boosting user experience

Paynalli Systems | *Software Engineering Intern*   *Apr 2023 - Jul 2023 | Boston, MA*
- Redesigned company webpage using NextJS and React for a more modern and uniform theme
- Leveraged NextJS server side page generation to drastically lower user render time by over 50% on permissions page

Projects

Mockple Application | *Next.js, React.js, MongoDB, JavaScript, Stripe API, Google OAuth, Tailwind*   *Jun 2023*
- Developed both an e-commerce admin and consumer platform with a fully functional payment system
- Executed authentication and authorization with Google's OAuth 2.0 functionality through NextAuth
- Created a robust payment system using Stripe API for secure and efficient transactions
- Integrated MongoDB adapter and AWS S3 Client to fetch documents and image metadata from database / bucket

WiseWallet Chrome Extension | *React, TypeScript, Chrome Storage API*   *Feb 2023*
- Developed a Chrome extension to keep track of user budget and spending, and block purchases using Chrome's APIs
- Implemented JavaScript injections with Chrome APIs to scrape site DOMs and block buy buttons
- Designed and executed user-friendly interfaces using React to display and store data in Chrome's local storage
- Placed Top 6 in HackBeanpot and won the "Most Likely to Earn Money as a Product" award

Leadership Experience

Society of Asian Scientists and Engineers | *Community Outreach Chair*   *Oct 2021 - Apr 2023*
- Headed a mentorship program for 60+ student mentors and mentees, promoting diversity initiatives for young professionals
- Initiated 6 volunteer opportunities within a semester for students to give back to Greater Boston community

Interests

Bouldering, Volleyball, Biking, Volunteering, Dragon Boat, Weightlifting, eSports, Baking Desserts