

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, Fundamentals of Computer Science I and II

Skills

Languages: JavaScript | Java | TypeScript | HTML/CSS | SQL | C++ | Python

Frameworks: NextJs | React | Tailwind | Bootstrap | Java Spring

Technologies: Git | MongoDB | AWS (S3, EC2, ECS, ECR, DynamoDB, ElasticSearch/OpenSearch, CloudWatch) | Postgres

Work Experience

Wood Mackenzie | *Software Developer Co-op*

Jul 2023 - Present | **Boston, MA**

- Revamped a complex importing feature using Java Spring and JavaScript, orchestrating functionality across 3 microservices by creating a custom XML parser for files over 1000+ nodes and handling requests to AWS S3, Postgres, and other microservices
- Spearheaded a knowledge transfer meeting, 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 critical 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
- Launched a full stack ETL feature spanning 4 microservices, showcasing popups and forms and REST endpoints to automate a previously manual process using React, Java Spring, CSS, Postgres
- Coordinated manual releases of code and config changes with CI/CD pipelines to multiple production environments
- Implemented batching, debouncing, and request back-off to optimize large scale data ETL and ELT processes
- 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 code pairing sessions to ensure code quality

HackBeanpot | *Software Engineer*

Apr 2023 - Present | **Boston, MA**

- Architected entire internal tool's backend to Next.js, improving the time of systems like team sorting by over 90%
- Migrated sorting script to internal tools app, creating 4+ 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 critical 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 using with a fully functional payment systems
- 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 in TypeScript to keep track of user budget and spending 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 over 60 students and arranged events for mentors to guide mentees
- Initiated numerous volunteer opportunities within a semester for students to give back to Greater Boston community

Interests

Rock Climbing (Bouldering), Volleyball, Biking, Volunteering, Dragon Boat, Weightlifting, eSports, Baking desserts