

# 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*

## 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**

- Migrated a core release importing feature utilizing 3 microservices with Java Spring and JavaScript. Created a custom XML parser reading files of over 1000+ nodes and handled requests over AWS S3, Postgres, and a vast number of microservice endpoints.
- Spearheaded a knowledge transfer meeting, providing in-depth insights into a core model importing feature, and played a pivotal role in refining three subsequent development stories
- Pioneered free text filtering of critical table using AWS OpenSearch, substantially increasing search efficiency on the table. Developed a script to enable filtering on previous entries in the database by backfilling necessary fields
- Released code and config changes with CI/CD pipelines to multiple environments, like QA, UAT, and Production
- Optimized various processes handling big data throughout the platform, like batching and request backoffs
- Participated in daily system and architecture design discussions for a new product-wide API service

**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
- Implemented styled front-end components using Tailwind CSS for a modern and responsive user interface

**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 over 4 volunteer opportunities within a semester for students to give back to Greater Boston community
- Moderated numerous fundraising events, such as selling bamboo and care packages to raise over \$1300

## Interests

Rock Climbing, Volleyball, Biking, Volunteering, Dragon Boat, Weightlifting, eSports, Baking