

Catherine Nathalia Ciomas Sutanto

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EDUCATION

Northeastern University, Boston, MA

Khoury College of Computer Sciences

Sept 2022 – Present

Expected Grad: *Dec 2025*

Candidate for Bachelor of Science in Computer Science with Minor in Interaction Design

GPA: 3.76/4.00 | **Honors:** Dean's List, Honors Program

Relevant Coursework: Algorithms & Data, Web Development, Mobile App Development (Android), Object-Oriented Design, Human Computer Interaction, Info System Design & Development, Computer Systems, Mathematics of Data Models, Foundations of Cybersecurity, Discrete Structures, Theory of Computation

Activities: Treasurer at ISANU (Indonesian Student Association), Web Designer at Artistry Magazine

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, Racket, Assembly, HTML, CSS, C, Kotlin

Frameworks and Tools: React.js, Vue.js, React Native, Node.js, Express.js, Django, FastAPI, Jest, Beautiful Soup, Twilio, Git, Jira, Figma, Android Studio, Docker

Databases and Cloud: MySQL, MongoDB, AWS (S3, Lambda, CloudFormation, RDS, QLDB, API Gateway), Google Cloud Storage, Firebase

EXPERIENCE

Full-Stack Software Development Co-op | **Spill Center**, Boston, MA

Jan 2024 – July 2024

- Revamped customer and admin dashboards with Vue.js and TypeScript, resolving critical bugs and introducing new features that enhanced performance and UX.
- Developed a dynamic regulations tab using PostGIS and Python, automating regulatory data collection via web scraping, reducing manual input by over 50% with improved accuracy.
- Engineered a scalable framework for customer dashboards, automating branding configurations and tab selections, streamlining the onboarding process by 35% for new clients with similar dashboard structures.
- Directed the MVP development of an HM cargo tank data platform for FMCSA, managing requirements, designing user flow/UI, and building the system using Nuxt.js, MongoDB, Docker and AWS.

Web Development Intern | **Doyobi**, Singapore, Singapore

May 2023 – Aug 2023

- Built interactive learning modules using React.js, Tailwind CSS, and the Canvas API, improving student engagement with real-time science simulations.
- Established a quiz system and personalized learning paths with Node.js and MongoDB, incorporating gamification and tracking to boost student progress.
- Created a teacher dashboard using Chart.js, enabling real-time performance tracking for over 100 users.
- Optimized scalability and accessibility across devices by integrating AWS Lambda and ARIA attributes.
- Designed responsive marketing site components in Figma and implemented them in React.js, leading to a 20% increase in user signups.

PROJECTS

CatherDines | catherinencs.github.io/catherdines | React.js, Node.js, AWS S3, MongoDB, spaCy

Sept 2024

- Engineered a dynamic single-page food review platform featuring an intuitive UI and interactive design.
- Implemented advanced semantic search and contextual filtering using spaCy.
- Created a password-protected admin dashboard for personal use, enabling adding and editing of reviews.

YumYard | github.com/catherinencs/yumyard | Firebase, Yelp API, Google Maps API

July 2024

- Built an Android app for discovering restaurants, using the Yelp API for restaurant data and filtering.
- Developed a review system with Firebase for authentication, real-time notifications, and a favorites list.
- Incorporated a leaderboard for top reviewers and Google Maps API for restaurant navigation.

PinMyPlace | github.com/catherinencs/pinmyplace | Vue.js, Node.js, Google Maps API, Slack API

Jan 2024

- Created a web app for sharing locations via Slack, using Google Maps API for coordinates.
- Designed an interactive map and dynamic UI with Bulma CSS.

Artifind | github.com/catherinencs/artifind | Python, FastAPI, React.js, OpenAI, Google RSS

Aug 2023

- Spearheaded the development of a FastAPI website offering personalized news search and in-depth analytics via Google RSS, specifically catering to Northeastern London Campus.
- Integrated OpenAI for sentiment analysis and content summarization.
- Led a 9-person scrum team, delegating tasks through Jira and delivering milestones to university stakeholders.