Chase Houser

(847) 284-5315, houser.ch@northeastern.edu, github.com/chouser63, linkedin.com/in/chase-houser, chouser.dev

Education

Northeastern University, Boston, MA **(Sept. 2023 - Present)**
Khoury College of Computer Sciences **GPA** 3.55/4.00
Candidate for Bachelor of Science in Computer Science, Bachelor of Business Administration
Relevant Coursework: Database Design, Object-Oriented Design, Data Structures and Algorithms, Fundamentals of Computer Science I & II, Discrete Structures

Technologies

Languages: TypeScript, Java, Python, SQL, JavaScript, HTML/CSS
Frameworks & Tools: Next.js, React, Tailwind, Figma, Strapi, Jest, TipTap, JUnit, PostHog, Arduino, Crestron, Excel
Cloud: AWS(ECS, RDS, ECR, S3, EC2), Docker, Terraform, MySQL, PostgreSQL, Postman, CI/CD & Github Actions

Work Experience

Full-Stack Development Co-op - *Khoury College, Boston, MA* **(Jan. 2025 - Aug. 2025)**
- Developed features for Odyssey, a learning platform that enables skill-building through async courses ("droplets")
- Launched **12 major features**, including note-taking and text highlighting, a personalized activity feed complete with a friends feature, due dates, dark mode, and a features gallery
- Created a responsive user interface using **Next.js 15** and **Tailwind CSS**, maintaining consistent sitewide styling through the use of custom developed **React** components, MUI, Luxon, Lucide, and other UI packages
- Engineered production and development deployments using a three-tier architecture on **AWS** (ECS Fargate, RDS, S3, VPC, ALB), utilizing **Github Actions** to execute a **CI/CD** pipeline
- Refactored the storage and access modules of course ratings to reduce API requests
- Implemented in-depth unit testing of 72 API request functions through **200+** tests using the **Jest** framework to ensure proper base functionality, reaching **95% code coverage**

Teaching Assistant for Introduction to Databases - *Khoury College, Boston, MA* **(Sept. 2024 - Dec. 2024)**
- Provided one-on-one tutoring during **5+** weekly office hours to clarify course concepts
- Graded over **120** student submissions per assignment, ensuring timely and fair evaluation and feedback

Home Automation Technician and Programmer - *IT@Home, Aurora, IL* **(May 2022 - Sept. 2024)**
- Installed, configured, and maintained advanced home automation systems at the price point of $30k-$50k using **Crestron** and **RTI** processors, supplying technical support to **5-10** clients a week
- Integrated and troubleshooted a range of technologies, including network devices, audio/visual components, CCTV, and system processors

Project Experience

DubOps - **1st Place AWS Track Winner at DubHacks (University of Washington)** **(Oct. 2025)**
- Developed AI-powered DevOps automation platform using **AWS Bedrock** (Claude 3 Sonnet) to analyze Github repositories and automatically generate AWS infrastructure as code configurations with **Terraform** and **Docker**
- Built full-stack application with **Next.js/Typescript** frontend and **Python Flask** backend, implementing Github OAuth and automated pull request creation for seamless developer workflow integration

Local League Legends **(May 2024)**
- Built a **Dockerized** three-tier web app for managing local sports leagues with **Flask** REST API, **MySQL** database, and **Appsmith** frontend
- Implemented RESTful API endpoints and SQL queries to support registration, scheduling, and team management

Extracurricular Involvement

VP of Recruitment - *Delta Kappa Epsilon Fraternity* **(May 2024 - May 2025)**
- Organized 7 events per semester with **60+ attendees** per event, facilitating community outreach
- Increased chapter membership by **50% over 2 semesters**; managed budget of $3300

Interests

Marathons, Triathlons, Bike Repair, Guitar, Spanish (intermediate)