

HASSAN CHOWDHRY

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EDUCATION

Dalhousie University

Halifax, NS

Bachelor of Computer Science (BCS)

Sep 2022 – May 2026

- **CGPA:** 4.25/4.3
- **Related Coursework:** Algorithms I, Data Structures & Algorithms, Systems Programming, Operating Systems, Network Computing, Software Development, Data Science, Database Systems, Web Development

AWS Certified Cloud Practitioner

Jun 2024

Amazon Web Services (AWS)

EXPERIENCE

Software Developer Intern

May 2024 – Aug 2024

BOTR Solutions | Next.js, React, TypeScript, Python, Django, Docker, AWS, Cypress, NGINX

Vancouver, BC

- Revamped the company website with innovative UI/UX designs, driving a 50% increase in user engagement.
- Automated CI/CD pipelines reducing deployment time by 60% and ensuring scalable, reliable delivery.
- Developed comprehensive end-to-end backend systems for REST APIs, streamlining feature development.
- Launched a comprehensive alert system leveraging AWS and Zenduty to track and report app errors in real time, improving the bug detection process and efficiency of the troubleshooting workflow by 25%.

Teaching Assistant

Sep 2023 – Present

Dalhousie University | Data Structures & Algorithms, Web Development, Robotics

Halifax, NS

- Boosted student performance by 25% by implementing personalized tutoring strategies.
- Elevated code quality to industry standards by providing constructive feedback on 100+ assignments.
- Assisted in weekly labs for 50+ students, enhancing their practical understanding of front-end concepts.

Full Stack Developer

May 2023 – Dec 2023

Upwork | React, AngularJS, Python, Django, Cypress, Docker, AWS, PostgreSQL

Halifax, NS

- Migrated a web app from AngularJS to React, enhancing UI/UX and code quality, improving performance by 20%.
- Improved test coverage by introducing API and UI end-to-end tests, achieving a 20% reduction in reported bugs.
- Optimized RESTful and WebSocket services, increasing unit test coverage from 50% to 90%.

PROJECTS

OldBailey AI | Next.js, Flask, OpenAI, Docker, MongoDB, TypeScript, Python, Redis, AWS

Jun 2024 – Aug 2024

- Engineered an AI-driven analytical tool for historians, enabling the examination of 1,000+ historical records; facilitated role-playing scenarios that enhanced user engagement by 40% in academic settings.
- Built a chatbot with CRUD operations and RESTful APIs to manage interactions and boost user engagement.
- Implemented a secure user authentication system with JSON Web Tokens (JWT) and Redis, optimizing token management and validation.

PodText AI | Next.js, React, TypeScript, OpenAI, Convex, Clerk, TailwindCSS

Jun 2024 – Jul 2024

- Spearheaded the development of a full-stack web application enabling users to create and publish podcasts using AI voice generation and text-to-speech technology.
- Integrated OpenAI's DALL-E to produce engaging podcast thumbnails, enhancing content appeal.
- Devised search algorithms to highlight top user channels and podcasts, increasing user interaction.

Portfolio | React, FastAPI, OpenAI, Python, JavaScript, AWS, Vite, Three.js, TailwindCSS

Mar 2024 – Jun 2024

- Launched a portfolio website using React, Three.js and TailwindCSS, featuring 3D graphics to showcase technical skills and projects, enhancing visual appeal and user engagement.
- Developed and integrated a personalized AI chatbot using FastAPI and OpenAI, improving user interaction.
- Utilized API Gateway and Lambda to cut costs by 30% and reduce deployment time by 50% with AWS CDK setup.

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, Java, TypeScript, C#, Dart, PHP, SQL, HTML/CSS

Frameworks: React, Next.js, FastAPI, Flask, Node.js, Express.js, Django, AngularJS, Unity, Flutter

Libraries: OpenAI, Pandas, Clerk, Three.js, TailwindCSS, SASS/SCSS, Riverpod

DevOps/Cloud: Docker, Amazon Web Services (AWS), Firebase, Heroku, Convex, NGINX

Developer Tools: Git, GitHub, GitLab, Postman, Figma, Jira, MySQL, PostgreSQL, MongoDB, Redis, XAMPP

Testing: Cypress, JUnit, Jest, Pytest