

Hassan Chowdhry

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EDUCATION

Dalhousie University

Bachelor of Computer Science (BCS)

Halifax, NS

Sep 2022 – May 2026

- **CGPA:** 4.25/4.3
- **Related Coursework:** Data Structures & Algorithms, Systems Programming, Database Systems, Software Development, Web Development, Theory of Computer Science, Data Science, Robotics

AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

Jun 2024

EXPERIENCE

Software Developer Intern

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

May 2024 – Present

Vancouver, BC

- Revamped the company website with new designs, improving user experience and increasing engagement by 50%.
- 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.
- Created infrastructure using AWS CDK for scalable, reliable deployments and automated alerting for downtime.

Teaching Assistant

Dalhousie University | JavaScript, HTML/CSS, Figma

Sep 2023 – Jan 2024

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

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

May 2023 – Dec 2023

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 issues.
- Optimized RESTful and WebSocket services, increasing unit test coverage from 50% to 90%.

PROJECTS

OldBailey AI | Next.js, Flask, OpenAI, Docker, MongoDB, TypeScript, Python, SCSS/SASS

Jun 2024 – Present

- Developed an AI to assist researchers and historians by providing insights into historical trends, facilitating data analysis, and offering an immersive experience through role-play.
- Created a chatbot, utilizing CRUD operations and RESTful APIs to manage interactions and improve user engagement.
- Implemented a robust user authentication system using JSON Web Tokens (JWT), incorporating secure token generation, validation, and refresh mechanisms.

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 generate podcast thumbnails, enhancing the visual appeal of user content.
- Developed search algorithms to view top user channels and podcasts, enhancing user engagement.

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

Mar 2024 – Present

- Engineered a portfolio website using React, Three.js and TailwindCSS, featuring dynamic 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, enhancing user interaction.
- Utilized AWS API Gateway and Lambda for scalable, cost-efficient deployment, automating setup with AWS CDK.

TECHNICAL SKILLS

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

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

Libraries: OpenAI, Pandas, NumPy, Matplotlib, SciPy, Three.js, TailwindCSS, SASS/SCSS

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

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

Testing: Cypress, JUnit, Jest, Vitest