ZAYN ABED abedm@mcmaster.ca | www.zaynabed.com | linkedin.com/in/zayn-abed | github.com/abedmohammed | Canadian Citizen

Software Engineering student with 20 months of internship experience, Google Developer Group Lead, and AWS Certified Cloud Practitioner. Passionate about building intuitive user interfaces and shipping high-performance web applications

### EDUCATION

## **McMaster University**

Bachelor of Engineering, Software Engineering - GPA: 3.9

Sep. 2020 - Apr. 2025 (Expected) Hamilton, ON

May 2024 - Aug. 2024

Jun. 2022 - Aug. 2023

Toronto, ON

Toronto, ON

Relevant Coursework: Data Structures and Algorithms, Advanced Databases, Concurrency and Multi-threading, Machine Learning, Computer Networks and Security

### **TECHNICAL SKILLS**

Languages: TypeScript, JavaScript, Python, Golang, Java, SQL, HTML/CSS Frameworks & Libraries: React.js, Next.js, Tailwind CSS, SCSS, Jest, Cypress, React Query, Redux, Express.js, FastAPI Tools: Git, Docker, Kubernetes, PostgreSQL, MongoDB, MySQL, AWS, Google Cloud Platform, Terraform, Supabase, Postman Certifications: AWS Certified Cloud Practitioner

## PROFESSIONAL EXPERIENCE

**Doctalk** (Startup building software solutions for doctors) Full-Stack Developer Intern

- Led the end-to-end development of an internal email builder, handling requirements elicitation, system design, and deployment. Replaced third-party vendors, reducing tool costs by 14% and improving email delivery for 900+ users
- Built the drag-and-drop email builder using React.js, Next.js, TypeScript, Tailwind CSS, and PostgreSQL, ensuring scalability and seamless integration with existing infrastructure
- Designed and developed the company landing page based on Figma product mockups using React.is, Next.is, and Tailwind CSS, ensuring an intuitive and responsive user experience aligned with brand identity
- Enabled the product team to efficiently generate and release notifications independently, removing the need for a dedicated developer, by designing and integrating a visual notifications workflow builder using React Flow and Node.js webhooks

**COLTENE SciCan** (Global leader in IoT medical sterilization equipment)

Software Engineering Intern

- Resolved 700+ tickets for a medical device IoT data dashboard, including feature development, debugging, and executing integration and unit testing with React.js, JavaScript, SCSS, and Jest
- Reduced testing overhead by 5 hours weekly by developing a Terraform infrastructure pipeline, which automated the deployment of Node.js and TypeScript scripts to AWS Canaries for efficient execution of end-to-end and integration tests
- Refactored and redesigned a promotional campaign platform, increasing submissions by 430% QoQ by developing scalable, high-performance web pages with Hugo, JavaScript, and SCSS

### EXTRACURRICULAR

## **Google Developer Group**

**Open-Source Core Team Lead** 

- Managing a team of 10 developers, defining project requirements, setting development milestones, and ensuring the successful deployment of an AI-assisted journaling and mood-tracking application focused on mental health
- · Leveraging React.js, JavaScript, Tailwind CSS, Express.js, and MySQL to build the application efficiently, incorporating GCP Vertex Al and Gemini to enhance mood analysis and user interaction capabilities

### **Open-Source Core Team Developer**

- · Developed an automated machine learning service, utilizing React.js, Material UI, FastAPI, and Google Cloud Platform to facilitate accessibility for users with diverse technical backgrounds
- Automated the upload of Docker images to GCP Artifact Registry using Terraform and GitHub Actions, then deploying on Google Kubernetes Engine for a scalable and efficient pipeline infrastructure

# PERSONAL PROJECTS - VIEW PORTFOLIO

### BravoDispatch 🗹

- Won "First Place Overall" and "Best Use of AI with Cloudflare" at Hack Western 11 (189 participants) by developing a computer-aided dispatch (CAD) application that leverages AI to prioritize emergency calls and assist dispatchers in real time
- Built with Next.js and Supabase, the app integrates speech-to-text transcription with Llama 3 Al via Cloudflare workers to extract critical insights from live transcripts, automate case categorization, and enhance dispatcher efficiency

Jun. 2024 – Current

Hamilton, ON

Nov. 2024

Sep. 2023 - May 2024