Maaz Siddiqi

maazali22@gmail.com | linkedin.com/in/maaz-siddiqi | github.com/MaazSiddiqi | maazsiddiqi.com

EDUCATION

Honors BSc. Computer Science   GPA: 3.9/4.0
Western University   *2021 - 2026 (Expected)*
- Awards: Scholarship of Distinction ($3,500), Dean's Honors List (2021, 2022, 2023)
- Courses: Data Structures & Algorithms, Computer Networking, Compilers, Databases, Operating Systems, Linear Algebra I

TECHNICAL SKILLS

Tech Stack: Ruby, Java, Python, Go, Rust, C, C++, C# (Unity), JS/TS, React, SQL, Docker, Kubernetes
Tools: Firebase, AWS (Lambda, RDS, Event Trigger), LLMs and RAG models, OpenShift, Figma, Jira, Confluence, Jenkins

EXPERIENCE

Amazon Web Services   Vancouver, ON, Canada
Software Development Engineering Intern | `Python, C, Typescript`   *Jun 2025 - Present*
- Designed and implemented automated engine upgrade system for ElastiCache MemoryDB engine releases, reducing release downtime by **73%** for **300+ production clusters** and a reduction in release upgrade operational tickets by **23%**
- Identified and fixed a race condition in Redis Core: Redis benchmark CLI and added support for granular timeouts
- Integrated graceful retries in synthetic load generation system to **increase availability by 22%** and enabling resistance to frequent cluster connection failures and failover

Shopify   Toronto, ON, Canada
Software Engineering Intern | `Ruby on Rails, React, SQL, GraphQL`   *Jan 2025 - Apr 2025*
- Launched Mobile Ads for Partners on the Shopify App Store, generating **$200K+ revenue** in 1 month with 66K clicks and 20K installs; adopted by **16%** of partners and featured in **14%** of all platform ads
- Implemented new validation for all app submissions, identifying **16K+ affected apps** via SQL and planning staged rollout
- Invited to lead an internal Cursor + AI workflows workshop for **32 senior+ engineers and managers**, sharing prompting strategies, workflows, and automation techniques across teams

Onova   Toronto, ON, Canada
Software Engineering Intern | `React, Django, Google Cloud Run, Docker, Terraform`   *Sep 2024 - Dec 2024*
- Built a B2B innovation management platform for Fortune 500s including **Microsoft, Google Cloud, and Capgemini**
- Designed new feature flagging system for **12** features to streamline feature sets in multi-tenant deployments and A/B testing
- Produced an increase in code coverage by **36%** by integrating Cypress, building testing guide, and conducting 3 workshops

Royal Bank of Canada   Toronto, ON, Canada
Software Engineering Intern, Amplify Incubator | `React, FastAPI, OpenAI, RAG, Kubernetes`   *May 2024 - Aug 2024*
- Built a **patent pending** solution to reduce call times by **17%** for over **90,000** employees to HR, saving **600,000** mins/year
- Developed RAG model using GPT-4 Turbo and embedded enterprise documents in vector database to generate personalized questions and suggest resources, projecting **$2,200,000 in annual cost savings** and **12.5% liberation of labor** in HR
- Achieved a 30% reduction in downtime by migrating away from older Jenkins pipeline and implementing new CI/CD pipeline with **GitHub Actions and Kubernetes on OpenShift**

PeerSupport.io   Vancouver, BC, Canada (Remote)
Software Engineering Intern | `React, AWS, Firebase, Docker`   *Sep 2022 − Apr 2023*
- **Reduced recommendations algorithm runtime by 80%** utilizing parallel data handling and consolidating queries
- Implemented **4 API Cron jobs** using AWS Lambda functions and Event Triggers, and provisioned new RDS databases
- Streamlined development by integrating Docker, including local database instancing and seeding, and hot-reloading

LEADERSHIP

Hack Western
Co-Chair   *Apr 2023 − Jan 2024*
- Led the planning and execution for one of the largest hackathons in Canada by managing a team of **26 organizers** across Engineering, Design, Marketing, Sponsorship, and Logistics – welcoming **400+ attendees** in-person for the 3-day event
- Sourced over **$50,000** in funding by negotiating sponsorship contracts and engaging with company representatives
- Coordinated promotional campaigns and websites producing **1300+ applications**, and a live site facilitating **500+ users**

Western Developers' Society
Tech Lead   *May 2022 − Apr 2023*
- **Supervised 50 developers**, offering comprehensive technical guidance, and ensuring consistent project progress
- Boosted registrations by **27%** by spearheading the development team and maintenance of the club's primary website

PROJECTS

'zlang' Compiler ⍟ | `C++, LLVM`
- Built compiler for custom **general-purpose programming language** by designing LL(1) grammar and compiling to LLVM Intermediate Representation (IR), leveraging **LLVM toolchain** to further compile to machine code on various architectures

Western Rank ⍟ | `React, Typescript, Tailwind, Prisma, PostgreSQL`
- Built a course review platform for Western University, facilitating over **10,000 visitors** and **470+ reviews**