A S M Taseen

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EDUCATION

University of Waterloo   Sep 2020 - Apr 2025
Bachelor of Computer Science (Honours)
Relevant coursework: Algorithms and Data Structure (C++), Application Development (Java, Kotlin), Objected Oriented
Programming (C++), Distributed systems (Java), Operating Systems(C++)

SKILLS

Languages: Python, TypeScript, JavaScript, C/C++, Java, Ruby, SQL
Technologies: React, Node, Express, AWS, Kotlin, PostgreSQL, Flask, Docker, Terraform, Rails, Redis, MongoDB

EXPERIENCE

Relay   Toronto, ON
Software Engineer - Risk   May 2023 – Aug 2023

- Built an **automated risk assessment and funding engine** for client transactions using **AWS Lambda** and **Node**,
  eliminating **1-3** business days of manual evaluation by risk coordinators

- Utilized **Terraform** to configure **AWS SNS** & **SQS**, funneling transaction risk alerts to trigger the engine in real-time

- Revamped the profile update process with email verification, spam alerts, and **Redis**-based rate limiting, effectively
  reducing profile theft by **85%** and safeguarding against API overload from excessive update attempts

Super.com   San Francisco, CA
Software Engineer - Monetization   Jan 2023 – Apr 2023

- Developed 4 asynchronous **Python** connectors in **Quart** framework increasing the availability of hotel rates per month
  on SuperTravel by over **140000** rates, resulting in about **12%** net revenue lift

- Implemented the Enhanced Refund program across the product using **React** and **Flask**, providing refundability on
  non-refundable hotel bookings for a fee, driving average profit per booking by **7%**

- Extended new API endpoints within the payments **microservice** using **Flask**, **PostgreSQL**, **Redis**, and **Braintree** to
  process booking amendment fees, generating over **$30000** in revenue per month

TutorOcean   Ottawa, ON
Software Engineer - B2B   May 2022 – Sep 2022

- Created an internal admin tool using **React**, **Node**, **Express**, and **MongoDB** that allowed one-click refunds, payments,
  and session booking amendments, facilitating customer support to seamlessly handle **2200+** requests per week

- Scripted event-based scheduler jobs utilizing optimized **MongoDB** queries, automating **4hrs+**/wk of manual labour

- Built an API using **Serverless** and **AWS Lambda** to automate tracking **9000+** mobile users on **HubSpot**

- Migrated website from **React** to **Next.js**, achieving a **3x** decrease in page load time that enhanced user experience

UW EntSoc   Waterloo, ON
VP of Tech   Jan 2023 – Aug 2023

- Led a team of **3** engineers to rebuild **Janus**, a hub connecting UW students and entrepreneurs, utilizing **MERN** stack

- Established a streamlined multi-environment deployment process and collaborated with product team on feature scoping

TutorOcean   Ottawa, ON
Full Stack Engineer - Marketplace   Sep 2021 – Dec 2021

- Implemented a fraud detection API middleware using **regex** and **MongoDB** query pipelines to flag self-promotional
  activity within internal tutor-student messages, enhancing customer retention and preserving **$48000+** revenue/month

- Integrated **HubSpot CRM** to strategically track customer interactions and collect metrics data from over **41000** users
  which contributed to enhanced **lifecycle marketing** strategies and a **28%** increase in customer conversion rate

PROJECTS

Hexa ↗ - React, Redux, Webpack, PostgreSQL, AWS, Node, Express, Docker

- Co-founded a South-Asia based EdTech startup, securing pre-seed funding and acquiring **700+** active users till date

- Built a **React**-based platform for IGCSE and A-level exam preparation, aiming better affordability and personalisation,
  featuring interactive e-learning courses combined with gamified practice features such as ranked quizzes

- Engineered a **Dockerized Node.js** API hosted on **AWS EC2**, integrated with a PostgreSQL database on **AWS RDS**

- Improved infrastructure by leveraging **AWS ELB** for load balancing, **Amplify** for CI/CD, and **S3** for static course data