

Mubtasim Mahmud

Full Stack Engineer

I have worked with various technologies and have a proven track record of being able to pick up a new tech stack on the job and become productive with it in short order. My goal is to become a senior developer who can lead teams to consistent success and architect scalable applications to support massive user bases.

mubtasimmahmud20@gmail.com ✉

+61468645414 📞

Melbourne, Australia 📍

mubtasim-mahmud.web.app/ 🌐

linkedin.com/in/mubtasim-mahmud-7b426318b in

github.com/mub2332 🐙

EXPERIENCE

Full Stack Engineer Monash University

01/2020 – Present

Worked as part of the mobile capability team. Responsible for the backend of a mobile app meant to scale to over 100,000 users and the frontend for a companion web app

Achievements/Tasks

- Tech stack: Firebase (Firestore, Cloud Functions, Auth, Cloud Messaging), GCP (Container Registry, Cloud Build, Cloud Scheduler, BigQuery), Node.js, React, SCSS
- Restructured database design to optimize cost-to-performance ratio of the mobile app and implemented business logic using serverless cloud functions
- Set up a CI/CD pipeline to automate the workflow and created migration scripts to coordinate changes across different environments
- Worked on an authoring console (SPA) for various departments at Monash to provide curated content to users of the mobile app
- Implemented automated UI tests using Gwen, a BDD tool based on Selenium and Cucumber
- Followed agile practices in accordance with the SAFe framework

Full Stack Engineer (Part-Time) Monash University

12/2019 – 04/2020

Worked on MonQA, a Q&A platform that uses the pool of answered questions to attempt to automatically answer common student queries via a chat-based interface. It also provides a document search that can locate the answer to a question from a list of relevant PDF documents

Achievements/Tasks

- Tech stack: React, Redux, Node.js, Express.js, MongoDB, Mongoose, AWS (EC2, EBS, S3, Route 53), Microsoft Azure (QnA Maker, LUIS, Cognitive Search, Text Analytics), Elasticsearch, Kibana
- Implemented domain-restricted authentication and authorization using OAuth 2.0 and SSO
- Designed database structure and models, implemented frontend state management architecture and created UI components

EDUCATION

Bachelor of Software Engineering (Honors) Monash University

06/2016 – 06/2020

Achievements

- Graduated with first class honors (Honors Weighted Average: 84.746)
- High Distinction Average (Weighted Average Mark: 80.646)
- Completed minors in Mobile App Development and IT for Business
- Received FIT IBL Placement Scholarship & FIT Summer Vacation Scholarship

PROJECTS

Glipher Personal Project

(Chrome extension:

<https://github.com/mub2332/glipher>), (Web app:

<https://github.com/mub2332/glipher-web>), (Live

Demo:

<https://www.glipher.application.marcelinz.com/>)

Details

- An application that can create animated GIFs from user-selected sections of YouTube videos
- Uses websockets to show realtime server processing updates on client
- Implemented as both a web app and a chrome extension
- Tech stack: React, SCSS, jQuery, Node.js, AWS (Lambda, S3, API Gateway, Fargate)

Monash HWA Calculator Personal Project

<https://github.com/mub2332/monash-hwa-calculator>

Details

- A chrome extension that calculates the honors weighted average mark when the user opens their academic record on WES
- Tech Stack: jQuery

SKILLS

Frontend Development

HTML, CSS, SCSS, JavaScript, TypeScript, jQuery, React, Redux, Next.js, Gatsby, Angular, Vue.js, Meteor, Svelte

Backend Development

Node.js, Express.js, NestJS, Python, Flask, Django, Ruby, Sinatra, Rails, Java, Spring Boot, GraphQL, Apollo, Deno

Mobile Development

Swift, React Native, Dart, Flutter, Ionic

Databases & ORMs

MongoDB, Mongoose, PostgreSQL, Sequelize, Redis, DynamoDB, Cloud Firestore, Prisma

Cloud Platforms & DevOps

AWS, GCP, Firebase, Microsoft Azure, Docker, Kubernetes, Jenkins, Serverless Framework, Heroku, Netlify

Testing & Automation

Jest, Enzyme, Mocha, Chai, Selenium, Cucumber, Cheerio, Nightmare.js, Puppeteer