

# Mubtasim Mahmud

## Full Stack Developer

Experienced in a variety of web technologies. Have a proven track record of being able to learn a new tech stack on the job and become productive with it in short order. Accustomed to working in self-organising teams that follow agile development practices.

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## WORK EXPERIENCE

### Full Stack Developer 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, Google Cloud Platform, Node.js, React, SCSS
- Optimised database design to reduce costs and increase performance of the mobile app
- Implemented business logic using serverless cloud functions
- Set up a CI/CD pipeline to automate the workflow and speed up productivity
- 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
- Used Agile practices in accordance with the SAFe framework

### Full Stack Developer Monash University

12/2019 – 04/2020

Worked on MonQA, a Q&A platform that used the pool of answered questions to attempt to automatically answer common student queries via a chat-based interface

#### Achievements/Tasks

- Tech stack: React, Redux, Node.js, Express.js, MongoDB, Mongoose, AWS
- Implemented domain-restricted authentication and authorization using OAuth 2.0 and SSO
- Designed database structure and models
- Implemented frontend state management architecture
- Created UI components

## EDUCATION

### Bachelor of Software Engineering Monash University

06/2016 – 06/2020

80.768 WAM, 84.646 HWA

#### Awards

- Graduated with first class honors
- FIT IBL Placement Scholarship
- FIT Summer Vacation Scholarship

## PERSONAL PROJECTS

### Glipher

- <https://github.com/mub2332/glipher>
- A chrome extension to create animated GIFs from sections of YouTube videos
- Tech stack: jQuery, AWS Lambda, API Gateway

### Monash HWA Calculator

- <https://github.com/mub2332/monash-hwa-calculator>
- A chrome extension that calculates the honors weighted average mark when the user opens their academic record on WES
- Tech stack: jQuery

### Seraph

- <https://github.com/mub2332/Seraph>
- An iOS app that sends voice controlled SOS messages to a list of emergency contacts
- Tech stack: Swift, SiriKit

### Honors Project Manager

- <https://github.com/mub2332/FIT-Honors-Monash>
- A website that lets students submit preferences for honors projects. The honors coordinator has an admin login that lets them allocate students to projects according to their preferences
- Tech stack: Angular, Spring Boot

## SKILLS

### Frontend

HTML, CSS, SCSS, JavaScript, jQuery, React, Redux, Gatsby, Angular, Responsive Design

### Backend

Node.js, Express.js, Java, Spring Boot, Python, Django

### Cloud

GCP, Firebase, AWS, MongoDB Atlas

### Databases

PostgreSQL, MongoDB, Cloud Firestore

### ORMs

Mongoose, Sequelize

### DevOps

Docker, Kubernetes

### Tools

VS Code, Git, Confluence, Jira, Trello

### Other

GraphQL, REST, Microservices