

Prabhav Mehra

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Education

Bachelor of Computer Science, RMIT

Feb 2019 - Nov 2021

Skills: React, NodeJS, Python (Flask), Java (Spring Boot), SQL, AWS (CI/CD, Microservices)

Work Experience

Full Stack Developer: Australian College of Trade

Feb 2020 - Present

- Transformed my role from an Admin Assistant to a Developer by proactively identifying ways to digitise paper-based processes.
- Collaborated with various departments to build a digital, real-time assessment platform with Python and SQL. Increased productivity by 25%.
- Increased speed of development by following the fat-model, skinny-controller design pattern and moved core logic to reusable modules

Projects

Full-Stack Developer: Live Emotion Recognition

Jan 2021 - Present

Demo: https://youtu.be/i3ngJ_3io9c

- Took ownership of designing, implementing and deploying a Telehealth platform in 2 weeks.
- Collaborated with psychologists to build real-time emotion recognition over live video.
- Increased scalability by architecting a [serverless architecture of Microservices and Micro-frontends](#) in Python and JavaScript.
- Secured sensitive health data with authorization policies and token-based authentication, using AWS's API Gateway and Cognito.
- Increased efficiency of the deployment pipeline with cloud infrastructure as code using CloudFormation and CI/CD pipelines with CircleCI.

Tech-Lead, Back-End Developer: Online Scheduling Software

Aug 2020 - Nov 2020

- Led a cross-functional agile team, worked alongside the product owner to deliver the scheduling software on time and to the client's acceptance criteria.
- Delivered the entire back-end, REST APIs with automated unit tests in Java (Spring Boot) connected to an SQL database, 30% faster than the estimated timeline.
- Sped up time to release lifecycle and reduced production errors by setting up CI/CD pipelines using CircleCI, Docker and AWS.

Full-Stack Developer: Advanced Sudoku Solver

April 2020 - May 2020

- Built a Sudoku Solver Bot (in Java) capable of solving hard 16 x 16 puzzles in 1 millisecond.
- Reduced development time across 6 different types of solvers by implementing the Bridge design pattern and efficient data structures.

Full-Stack Developer: Smart (IoT) Car Reservation System

March 2020 - May 2020

- Increased customer safety and experience by adding Machine Learning based Facial Recognition locking/unlocking to cars with a Raspberry Pi & sensor-based drop off points.