

Mohideen Imran Khan

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Education

National University of Singapore (NUS)

BEng, **Computer Engineering**

June 2021

- **CAP: 5.0/5.0**; 14 A+ and 5 A with 21 modules
- Relevant Coursework: Programming Methodology I & II, Data Structures and Algorithms, Multi-variable calculus, Differential Equations, Linear Algebra, Statistics

Technical Skills

Programming languages: Java, C, C++, JavaScript (TypeScript), Elm, Elixir, Python, PHP, SQL, Verilog

Frameworks: React-Redux, Phoenix

Web technologies: HTML, CSS (SASS)

Experience

Software Development Intern, nuTonomy, Singapore

Summer 2019

- Optimized map creation software for autonomous vehicles by developing new algorithms that shortened application response time by up to 80%
- Built a search feature for an internal React application that increased user productivity

Undergraduate Laboratory Teaching Assistant, NUS, Singapore

Jan 2019 to May 2019

- Taught implementation of data structures and algorithms in C++ to 47 undergraduate students
- Graded and provided feedback for 5 assignments attempted by the 47 students

Cofounder, Sponslist, Singapore

May 2017 to Jan 2018

- Built a web application for the company using Elixir-Phoenix that handled more than a hundred events without downtime for over six months
- Implemented a telegram bot in Elixir that coordinated business processes such as user management, real-time search logging and user activity monitoring

Data Analytics Assistant, Singapore Civil Defence Force

Sep 2016 to Apr 2018

- Automated a significant portion of data cleaning and processing workflow using R that cut down manual work by more than half
- Explored data cleaning using techniques such as MILP for error-localization and automated imputation
- Facilitated the development of an operational research project for efficient and effective ambulance deployment; the project was eventually deployed nation-wide

Freelance Technical Writer

- Worked with experienced editors and published two paid articles on automated Elixir application deployment on DigitalOcean that have gathered over 40,000 views (see publications)

Publications

- How to Automate Elixir-Phoenix Deployment with Distillery and edeliver (do.co/2SYWOWq)
- How to Deploy Elixir-Phoenix Applications with MySQL (do.co/2YxsJmh)

Honors/Awards

NUS Merit Scholarship

2018

Rank of Sergeant and Performance Award in Singapore Civil Defence Force

2018

National Olympiad in Informatics, Silver

2015

AngelHack Singapore Champion (Team)

2015