

Saleh Ahmed Khan

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Education

University of Melbourne

Bachelor of Science in Computing and Software Systems

2016 – 2018

Experience

Phoebe Solutions

Software Developer

2018 - Present

- Primary responsibility: maintaining and upgrading main company product dealing with sensitive client financial records, technology used includes NodeJS for main backend/APIs, R and Python for data cleansing, machine learning and visualization; and Mongo, SQL and Java along with integration and connectivity tools for data migration, storage and retrieval.
- Doing integration work (including adding new features and modifying workflow) for company's proprietary software and as a licensed reseller for clients with different requirements, used various cloud and network administration technologies including the Microsoft Azure suite, Nginx and RHEL/Ubuntu Server.
- Worked on a new version of the company's main product from scratch.

Phoebe Solutions

Software Development Intern (one semester)

2018

- Tested and helped evaluate stacks and frontend frameworks for new projects.
- Created and implemented end-to-end software solution to digitize production of hospital Discharge Summaries based on client requirements and government regulations. Tested and adapted for compatibility and usability with different types of server and user environments.

Kwik Forex Commercial Broker

IT Intern (summer)

2015

- Learned about accounting, trade and finance software used in a fast paced and competitive industry.
- Learned about the network and server configurations and databases used by the company.
- Learned how a professional website is set up and email servers are hosted.

Projects

Neural Network based Emotion Analyzer App

Skills applied – (Machine Learning/Data) Python, Tensorflow, (DB) Firestore, Mongo, (Backend) JavaScript, NodeJS, (Frontend) React-Redux, Google UI

Used webcam feed (primarily) to train on expressions to predict sentiment. A NodeJS server was used to provide backend functionality to the web app, including providing APIs to access the live data being stored in the database.

A demo and business pitch was prepared and presented with our growth and marketing plans including long and short term strategies and evaluations of risks, potential revenue and market feasibility.

Mobile Application to help the elderly navigate

Skills applied – Kotlin, Java, native mobile development, Google Maps API, Twilio, Synchron

Implemented APIs for notifications, VoIP and video calling, cloud data storage, screen capturing/annotation between users, and Google Maps.

TLS Certificate verification server

Built a server in C to receive signed TLS certificates and verify them for authenticity.

Game playing AI

Used Python to build an AI by implementing the most appropriate and efficient for the game.

Basic file server in C

Built to accept incoming HTTP connections (multithreaded for concurrency), accept and parse headers received then respond with appropriate file.

Basic tile-based game in Java

Used a popular tile-based engine to program a custom game for the OOP subject in university.

Data Science project

Used Python with various data science libraries for data cleaning, analysis and visualization of open source data published by the Victorian government.

Forum + Blog website

Built a forum and blog publishing website hosted on Heroku and written in JavaScript (frontend/backend), HTML5 and CSS/SASS.

Skills

Languages

Professional experience (used both during education and working in industry)

Java, JavaScript, SQL, R, HTML and CSS.

Learned as part of my formal education

All of the above.

C, C++, Kotlin, Python and MATLAB.

Technologies and frameworks

Used extensively in both my professional and university life

- Programming and using the following in both Windows, Linux, and macOS environments.
- Git (+ understanding of theory and history with experience of pre-git version control as well)
 - o CLI and GUI (GitKraken/SourceTree/GitHub desktop/Visual Studio Code Git extension)
 - o GitHub, GitLab, Azure DevOps
- NodeJS (backend), Nginx, Bootstrap, SASS, React, MongoDB, Firebase
- Azure, PuTTY, WSL, WinSCP, SQL applications (MySQL, DBeaver, Squirrel), PowerShell, Bash, CMD
- TensorFlow, NumPy, Tidyverse