Allan Sham

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LinkedIn
GitHub
Portfolio

Front-end web developer with a drive to continuously learn and improve.

TECHNICAL SKILLS

Main skills: Angular, Typescript, JavaScript, HTML5, CSS3, SCSS, Firebase, RxJS, Git.

Other skills: Nx, Flutter, Svelte, React, Progress OpenEdge, Python, Node.js, Express, NestJS, MongoDB, Cypress.

WORK EXPERIENCE

DRAMS Software – Full Stack Developer   **Nov 2019 – Present**

- Design, develop, test, maintain the DRAMS bulk inventory and distillery warehouse management software.
- Primarily, worked on the front-end building single page web applications with Angular.
- Built RESTful APIs using Progress.
- Contributed greatly to the technical review process as DRAMS transitions fully to the web.
- Built a prototype of the new web app with a complex nested tab system, using many advanced features in Angular such as: route reuse strategy, control value accessor, creating schematics and portals.
- Evaluated state management libraries (Akita, NgRx, NGXS) and UI component libraries (PrimeNG, Angular Material, Kendo UI, Webix).
- Researched and evaluated e2e testing libraries (Cypress, Protractor, Testim) and implemented tests into the pre-existing and new web-based applications.

Gyrodata Incorporated - Survey Specialist (Field Engineer)   **Nov 2013 – Jan 2018**

- Operating Gyrodata's downhole gyro tool, equipment, and software to analyse the direction of wells.
- Developed an Excel spreadsheet (and later a Python script) to automate a tedious task, speeding up and increasing accuracy. The spreadsheet was submitted to management to be release company wide.
- Attention to detail was vital in all aspects of the job: checking equipment, inputting vital figures into software, analysing data collected, post job reports.
- Adaptability was vital as every oil rig is different with different rules, safety systems, layout, clients, language.
- Ability to cope with stress, time limits, work independently as well as in a team and for long hours.
- Communication with the client, other rig workers and Gyrodata management was imperative. Explaining complex concepts in an easy-to-understand way.

PERSONAL PROGRAMMING PROJECTS

Bill Calculator (Link, GitHub)

- Simple calculator to work out who owes who what, for example, after a holiday with your friends.
- Front-end: Angular, RxJS, PrimeNG. Back end: Firebase (Authentication, Firestore, Functions).

Google Fonts Clone (Link, GitHub)

- Fully-responsive website built with React using Hooks (useState, useEffect, useReducer).
- Styled-Components for light / dark mode.

EDUCATION

University of Glasgow - MSc Aerospace Engineering and Management (Award: Merit)   **Jan 2018 – Jan 2019**

- Modules: project management, managing creativity and innovation, managing change, marketing management, spacecraft systems, autonomous vehicle guidance system.

University of Aberdeen - MEng Mechanical Engineering (Award: 1st)   **Sep 2008 – Jan 2013**

- Modules: fluid dynamics, dynamics, engineering materials, thermodynamics, engineering management.