






# SHEA FAIGAN

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## EDUCATION

**Bachelor of Software Engineering**  
University of Victoria, 4<sup>th</sup> Year  
Expected Graduation: Aug. 2022  
3.85/4.00 GPA

## SKILLS

### Programming Languages

JavaScript, TypeScript	Python
Java, Kotlin	C
Go (Golang)	SQL
HTML5, Pug/Jade	CSS3/Less

### Tools and Frameworks

#### Front-end

React, Redux, Material UI

#### Back-end

Node.js, Express, MongoDB,  
Mongoose, Auth0, Elasticsearch,  
Spring Framework

#### Cloud

AWS Lambda, AWS S3, AWS ECS,  
AWS API Gateway

#### DevOps

Docker, Jenkins, Gradle, Terraform

#### Testing

React Testing Library, Jest, Chai,  
Mocha, Jasmine, Pytest, JUnit,  
Cypress, Selenium

#### Other

Git, JIRA, Confluence

## VOLUNTEERING

**VikeLabs** 2019 – Present

- Admin Team
- Team Lead – Degree Planner
- Student Mentor

## WORK EXPERIENCE

### WORKDAY (HCM: KNOWLEDGE BASE)

Victoria, BC

Software Development Engineer (Full Stack), Co-op Jun 2020 – Apr 2021

- Developed accessible and maintainable front-end code using **TypeScript** and **React**, and robust and extendible back-end code using **Kotlin**, **Spring**, and **AWS**, within a core team of 8 to serve millions of users worldwide
- Identified, triaged, and fixed bugs, implementing new tests using **Mocha**, **Cypress**, and **Spring Testing** to prevent further bugs and increase test coverage
- Used **ElasticSearch** to find recurring exception, identified cause, wrote formal report, and improved exception handling process using **Kotlin** and **Spring**
- *Self-initiated*: Developed dashboard for users to find knowledge base articles with various filtering options using **TypeScript**, **React**, and **Kotlin**
- *Self-initiated*: Automated a costly part of the deploy process involving manual work from managers and developers using Slack

### SAP (ANALYTICS CLOUD INFRASTRUCTURE)

Vancouver, BC

Developer (Full Stack), Co-op Jan – Aug 2018

- Developed user-facing features and fixed bugs using **JavaScript**, **SAPUI5**, and **Java** within a core team of 12 to serve 2000+ companies worldwide; developed automated quality assurance tests using **Jasmine**
- Worked with various development and UX teams to complete a UI overhaul of SAP Analytics Cloud using **JavaScript** and **SAPUI5**
- *Self-initiated*: Developed a web application to facilitate office navigation and meeting room booking using **JavaScript**, **Node.js**, **React**, and **Redux**; deployed office-wide, serving over 2000 employees
- *Self-initiated*: Redefined file ownership (by team) programmatically using **Python**; developed Slack bot for simplified chat query-based access using **CoffeeScript**, **Hubot**, and **Redis**; deployed company-wide with automated builds using **Jenkins**

### CRADLEPOINT

Kelowna, BC

QA Software Development Intern Jun – Aug 2017

- Developed automated QA tests using **Python**, **Pytest**, and **Selenium**, resulting in an increase of 10% in test coverage
- Developed script to automate soak test process using **Python**, **Bash**, and **Redis**
- Developed JIRA gadget to display metrics from **TestRail** using **JavaScript**

## PROJECTS

### DEGREE PLANNER

In Progress

TypeScript, Node.js, Express, React.js, MongoDB

Web application for University of Victoria students to plan their degree.

Formal requirements engineering and design processes performed.

Advised by Dr. Daniela Damian (PhD, S.Eng; P.Eng) and Dr. Charles Perin (PhD, CSC).

### DB44 MARKET

2019

TypeScript, Node.js, Express, Docker, MongoDB, Pug/Jade

Designed and implemented e-commerce web application (MVC architecture). Features include authentication and roles, shopping (browsing, filtering, and purchasing products), and supplier activities (selling and managing products).