

Ahad Ali

FIFTH YEAR SOFTWARE ENGINEERING AND BUSINESS STUDENT · SEEKING SUMMER 2024 SOFTWARE ENGINEERING INTERNSHIPS

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Education

University of Calgary

Calgary, Canada

DUAL DEGREE IN SOFTWARE ENGINEERING AND FINANCE | DEAN'S LIST | GPA: **3.95/4**

Sep 2019 - Apr 2025

- **Relevant Coursework:** Data Structures and Algorithms, Database Systems, Computer Networks, Operating Systems, Software Architecture, Decentralized Finance, FinTech, Corporate Finance, Security Analysis and Investments
- **Clubs and Involvements:** Schulich Ignite, AASEE, Calgary Competitive Programming Club, Engineering Leadership Program, Code the Change
- **Scholarships and Distinctions:** Aufrecht Family Fund (\$16 000), Honeywell Leadership Challenge Academy (Awarded to 280 students globally)

Skills

Languages JavaScript, Python, Java, Julia, C/C++, HTML/CSS, SQL

Technologies React, Node.js, Express, MongoDB, Firebase, MaterialUI, Bootstrap, Git, Django, Webpack, Figma, Linux/Unix, JIRA, Flask

Work Experience

HomeX

Toronto, Canada

SOFTWARE ENGINEER INTERN

May 2023 - August 2023

- Developed a Python API with **FastAPI** and BeautifulSoup to create a glossary of trade terms with instant querying using a trie-based search
- Implemented Appliance OCR using Google Cloud OCR improving technician workflow by **17%** by automatically extracting Appliance Label data

HomeX

Toronto, Canada

SOFTWARE ENGINEER INTERN

May 2022 - August 2022

- Engineered a centralized dashboard web app with **React** and **GraphQL** elevating data accessibility and enhancing user experience for clients
- Devised a Node.js/Express REST API to seamlessly integrate HomeX with Salesforce resulting in acquiring **3 new clients** from competitors

Redbrick

Victoria, Canada

SOFTWARE ENGINEER INTERN

May 2021 - August 2021

- Performed automated testing using **React Testing Library**, **Jest** and **Puppeteer** to maximize code coverage and mimic user behaviour through unit, integration and end-to-end tests
- Developed web scraping scripts with Selenium and BeautifulSoup (**Python**) to automate QA tasks and decrease QA time spent by **45%**
- Implemented feature requests and bug fixes while adhering to agile methodologies and tools such as Scrum/Kanban and JIRA

AASEE

Calgary, Canada

SOFTWARE ENGINEER INTERN

June 2020 - August 2020

- Designed and developed a website from scratch primarily using Figma and **HTML/CSS/JavaScript** with SEO tactics to increase site traffic
- Optimized for a quick, responsive, visually appealing website using **React-Bootstrap** to resolve cross-browser and cross-platform issues
- Completed the **full development process**, including creating mock designs, implementation, design reviews and product presentation

Calgary Board of Education

Calgary, Canada

IT SPECIALIST INTERN

July 2019 - August 2019

- Performed general IT duties including setting up new computer labs, laptop carts, tablet carts efficiently to reduce regular maintenance
- Updated and maintained the CBE IT database inventory for over 750 devices by exporting integrated csv file
- Reimaged over 500 computers with CBE approved and licensed OS to ensure network security and sufficient software for student success
- Upgraded CBE owned computers with newer and faster components to increase student productivity at a minimal cost

STEM Learning Lab

Calgary, Canada

STEM CAMP COUNSELLOR INTERN

July 2018 - October 2018

- Collaboratively developed and taught engaging STEM curriculum to over 250 elementary and middle school students in summer camp and after-school enrichment program through engaging activities using SCRATCH, Python, TinkerCAD, Lego Mindstorms, MIT App Inventor

Volunteer Experience

Code the Change YYC

Calgary, Canada

STUDENT DEVELOPER

Mar 2022 - Oct 2022

- Developed a full-stack web application for a non-profit to streamline their donation drive process using React, MaterialUI and **Firebase**

Schulich Ignite (Formerly Google IgniteCS)

Calgary, Canada

STUDENT MENTOR

Jun 2020 - Aug 2021

- Taught basic programming principles through **Python** and actively provided suggestions for improvement of the program in weekly meetings

Lord Beaverbrook High School

Calgary, Canada

TEACHING ASSISTANT

Jan 2019 – Jun 2019

- Assisted new CS teacher in teaching a class of **30+** students an introduction to programming and Object-Oriented Programming using **Java**

Technical Projects

Vis42 | Sponsor Company

REACT, DJANGO, SQLITE3, DOCKER, DOCKER COMPOSE

- Currently working on a year-long capstone project in a team of 5 with Circle CVI to develop a web-based Heart Biometrics Dashboard that aggregates and visualizes AI-Driven Data

On The House | [Source Code](#) | [Live Demo](#)

REACT, NODE.JS, EXPRESS, FIREBASE, MATERIALUI, POSTMAN, AXIOS

- **Led a team of 7 students** to develop a full-stack homemade food recipe aggregation web application as part of a software architecture project
- Designed project based on **Microservice Architecture** utilizing Event Sourcing to meet non-functional requirements like scalability

TecShop | [Source Code](#) | [Live Demo](#)

REACT, REDUX, NODE.JS, EXPRESS, MONGODB/MONGOOSE/ATLAS, BOOTSTRAP, POSTMAN, JWT, AXIOS

- Developed a **full stack** e-Commerce website with a responsive frontend with state management using React, Bootstrap and **Redux**
- Implemented a responsive full stack e-Commerce app with the **MERN** stack based on the **Client-Server Architecture design pattern**

DevSpace | [Source Code](#) | [Live Demo](#)

REACT, REDUX, NODE.JS, EXPRESS, MONGODB/MONGOOSE/ATLAS, BOOTSTRAP, POSTMAN, JWT, AXIOS

- Developed a **full stack** social networking web application (like MySpace) exclusively for developers using the MERN stack
- Designed a **RESTful API** backend that reads and writes data to a **MongoDB Atlas cloud database** using Node.js and Express

Breaking Bad Cast | [Source Code](#) | [Live Demo](#)

REACT, BREAKING BAD API, FETCH API, HTML/CSS

- Developed a responsive website using **React** and fetched data with the **Fetch API** to make HTTP requests from the Breaking Bad API

My Reading List | [Source Code](#) | [Live Demo](#)

HTML/CSS, BOOTSTRAP, JAVASCRIPT, WEBPACK, LOCALSTORAGE

- Developed a reading list website using **ES6 Modules** that are then bundled using **Webpack** to ensure modularity and ease of access
- Designed project based on **MVC design pattern** and implemented a simple data storage using **Web Storage API** to persist user's data