




AMAN VISHNANI

Software Engineer

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KEY HIGHLIGHTS

- A Full Stack Software Product Engineer with 3+ years of experience currently based in Halifax, Canada.
- Graduated as Master of Applied Computer Science from Dalhousie University with **4.15/4.3 GPA**
- Developed *Grandstand* – A data visualization module in web application for KAM Product at DemandFarm Inc.
- Excellent understanding of frameworks & libraries such as Spring, Angular, Express.js, Hibernate, and Ionic.
- Fair knowledge of TDD, Design Patterns, clean code, various architectures, and Best Practices.
- Hands on experience with Containers, Docker Compose, CI/CD, Git, etc.
- Worked on AWS cloud technologies such as RDS, EC2, Elastic Beanstalk, Lambda, Cognos, CloudFront, and S3.

EDUCATION

Master of Applied Computer Science

Dalhousie University / September 2019 - December 2020

Bachelor of Engineering

Computer Science / SRTMUN University / 2013–2017

SKILLS

Programming Languages

Java, JavaScript, Python, TypeScript, SQL

Databases

MySQL, PostgreSQL, Oracle, MongoDB, Neo4J

Web Technologies

React, Angular, HTML, CSS, Bootstrap, SASS, Material UI, Ionic, NodeJS, Spring Framework, RESTful Services, GraphQL

Big Data and Machine Learning

Apache Spark, NumPy, Pandas, Keras, TensorFlow

VCS, IDEs, and DevOps Tools

Git, VS Code, IntelliJ, Eclipse, Docker, Jenkins, Kubernetes, Ansible

CERTIFICATIONS

DeepLearning.AI TensorFlow Developer

Deeplearning.ai / Coursera / January 2020

Deep Learning Specialization

Deeplearning.ai / Coursera / February 2019

Python for Everybody Specialization

University of Michigan / Coursera / August 2017

Machine Learning

Stanford Online / Coursera / June 2019

Visualization with Tableau

UC Davis / Coursera / June 2017

EXPERIENCE

IT Developer

Canada Revenue Agency / Halifax / Fall 2020 - Present

- Worked on software product: KSP-TA Platform
- Analysed business requirements
- Effectively communicated with business team to provide best solution from a UI & UX perspective
- Developed Full Stack Web App in Angular and Java
- Written Angular components with unit test cases
- Written REST APIs in Spring Boot with Java
- Wrote complex reporting queries using native SQL
- Followed Test Driven Development
- Performed Code Reviews for peers & provided feedback
- Followed Agile Methodology
- Performed task and user story estimations for Sprint Planning
- Written End to End Protractor test cases
- Promoted coding best practices within team
- Participated in daily SCRUM stand up calls to actively discuss daily issues
- Mentored new staff to get started with project.

Tech Stack: Angular, Spring Boot, MS SQL Server, Azure, ColdFusion

Full Stack Software Product Engineer

DemandFarm Inc. / Pune, IN / 2017–2019

Developed product focus mindset by providing proactive product ideas/opinions, taking end-to-end product feature ownership, and performing quick product validation cycles.

Responsibilities

- Product Design
- Designing UI Wireframes
- Product Architecture
- Software Development
- Integration Development
- Roadmap Planning
- Mentoring & Recruitment

Technology Stack

- HTML & CSS
- JavaScript & Java
- AngularJS & Ionic 1
- Spring & Hibernate
- MySQL & Oracle
- AWS & Private Cloud

PROJECTS

Group Formation Tool

CSCI 5308 / MACS / Dalhousie University / Summer 2020

- Developed a Spring Boot application in Java
- Applied SOLID principles and Design Patterns
- Followed Test Driven Development
- Planned bi-weekly sprints using Scrum Methodology
- Implemented CI/CD Pipeline.

Greenkart – E-commerce Platform

CSCI 5709 / MACS / Dalhousie University / Summer 2020

- Developed an e-commerce platform PoC.
- Node.js, React.js and MySQL was used.
- Implemented CI/CD pipeline

Serverless Learning Platform

CSCI 5709 / MACS / Dalhousie University / Summer 2020

- Developed Multi-cloud (AWS/GCP) LMS Platform.
- Instant Messaging, ML Tool, and Chat Bot was built.
- Lambda, RDS, Cloud Run, Lex, Comprehend, S3, Cloud Functions, Firebase, Cloud Storage were used.
- Programming languages such as Node.js, React.js and Python were used.

Canada Tourism

CSCI 5409 / MACS / Dalhousie University / Winter 2020

- Written frontend application in Angular 9
- Deployed Continuous Integration pipeline.
- Designed Microservice architecture.
- Wrote Services in Spring Boot.
- Integrated AWS Cognito for MFA
- Deployed Services on AWS Elastic Beanstalk

Dal Bike App

CSCI 5708 / MACS / Dalhousie University / Winter 2020

- Came up with App idea for Bike Rentals at Dal.
- Designed high fidelity wireframes
- Followed Scrum methodology
- Developed mobile app in for android using Kotlin.

World Health Map – Tech Innovation

CSCI 5193 / MACS / Dalhousie University / Winter 2020

- Worked on lean canvas to develop business idea
- Developed a business idea into a working PoC
- Designed High Fidelity prototypes
- Performed sprint planning in Asana
- Followed Scrum methodology
- Developed front end app in Angular 9
- Developed backend in Node.js and Express.js

8085 Simulator

Mini Project / SRTMUN University / 2015

- Came up with App idea for the Project.
- Used Swing and AWT to design UI.
- First project to be written in Java and maintained on GitHub.

Machine Learning – Mini Project

CSCI 6505 / MACS / Dalhousie University / Winter 2020

Implemented the following:

- K-Nearest Neighbours using NumPy
- Neural network implementation using NumPy
- Data Synthesis for Classification Problem
- MNIST Autoencoders using PyTorch
- Denoising Autoencoders using PyTorch

Green Miles - Banking and Insurance Hackathon

MACS / Dalhousie University / Winter 2020

- Worked on lean canvas to develop business idea
- Developed a business idea into a working PoC
- Built PoC Mobile App in Ionic Framework.

Analytics 5408

CSCI 5408 / MACS / Dalhousie University / Fall 2019

- Scraped Data of Dal.ca and stored in MySQL
- Created Star Schema from the data
- Analysed using BI Tools
- Collected text data from twitter using APIs
- Processed the text data using Apache Spark's Map-Reduce program.

Neo4j Marine Life Data Visualization

CSCI 5408 / MACS / Dalhousie University / Fall 2019

- Scraped data oceana.ca using python libraries
- Stored the data in Neo4j database by connecting each node to another by a neighbour relationship
- Used Neo4j Browser to visualize the relationship amongst different species.

Home Automation System

B.Eng. Final Project / SRTMUN University / 2016–2017

IoT based project to control switches from web app and mobile app.

Responsibilities

- Designing UI Wireframes
- Software Development
- Roadmap Planning

Technology Stack

- HTML, CSS, JS
- Node.js & Express.js
- AngularJS & Ionic 2
- MongoDB