(403) 680-1999 **≥** vladt13@gmail.com

VLAD TIMOFYEYEV Full-Stack Software Engineer

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EXPERIENCE

Software Developer, Intern

Benevity

Jan. 2023 – Apr. 2023

- Refactored an internal application that compiles charitable cause information, resulting in a 95% performance increase, using Vue.js and TypeScript for the frontend and Java Spring Boot backend hosted on AWS EC2
- Designed and developed a sub-system for storing and retrieving files using S3 and MariaDB, which was crucial for the application's high performance and overall functionality
- Implemented Benevity's in-house design library to create a user-friendly and consistent interface for the app

Software Developer

Airtasks

Sept. 2022 – Jan. 2023

- Developed a proof of concept mobile app using **React Native** and **TypeScript** for a collaborative workflow management platform that streamlines the design and modelling of digital twins in construction
- Built user interface to UI and UX specs, ensuring aesthetic and usability consistent with company's web app
- Collaborated with a team of international developers to ensure efficient delivery to startup's growing userbase

Digital Twin Designer

Modern Niagara

May 2021 – Sept. 2022

- Implemented automation scripts using **Python** and **Autodesk Revit API** tools which saved the team 100+ hours of work on the project. Designed mechanical system solutions for prefabrication of a new hospital under tight deadlines, ultimately saving the company \$2M while using **Agile** to meet owner requirements
- Created extensive documentation for project onboarding and outsourcing. Used these materials to on-board 3 junior team members and collaborate with an offshore team

Mechanical Engineer

Deepwater Farms

Sept. 2020 - Apr. 2021

• Designed and built a logging system in C++ that uses a microcontroller and flow sensors to monitor and report facility water usage trends, which helped discover a leak and saved 10% on the water bill

Project Engineering Intern

TC Energy

June 2018 - Sept. 2019

• Automated the process of communicating field updates to the project team, which saved the company 100+ hours. Responded to 150+ contractor requests for information in a timely manner while mentoring 2 summer students

PROJECTS

Course Cart &

Dec. 2022

• Single page app that fully simulates a course registration system for students and administrators, using **REST API** developed with **Java Spring Boot** and **MySQL**. Hosted using **AWS Elastic Beanstalk** and **Amplify**

Fiberr So Nov. 2022

- Web app that gives dietary suggestions by scanning barcodes with OpenCV and interfacing with Open Food Facts
 API to suggest alternative products that would meet user's criteria. Developed for Hack the Change 2022
- Designed user interface in **Figma** and implemented it in **React** in under 24 hours

EDUCATION

M.Eng. Software Engineering

University of Calgary

May 2022 – Apr. 2023

• Graduate Coursework: Software Design and Architecture, System Analysis, Machine Learning, Databases, Big Data, Algorithms and Data Structures, Software Reliability, Data Mining and Deep Learning. GPA 3.9/4.0

B.Sc. Mechanical Engineering

University of Calgary

Sept. 2015 - May 2020

• Coursework: Mechatronics, Control Systems, Computing for Engineers, Innovation and Renewable Energy Entrepreneurship (Group Exchange in Shantou University, China), Linear Algebra, Calculus III, Statistics

TECHNICAL SKILLS

- Languages: Python, C++, Java, SQL, JavaScript/HTML/CSS, TypeScript
- Frameworks and Libraries: Spring Boot, Node.js, React, Vue.js, Bootstrap, MaterialUI, Semantic UI
- Tools: AWS (EC2, Elastic Beanstalk, RDS, Amplify, DynamoDB), Maven, Databricks, Postman, Git, Linux