

Nicholas Lee

Nicholas.lee1@ucalgary.ca | github.com/nick9lee | Nick9lee.me | 403-903-5779 | Calgary, AB, Canada

Education:

University of Calgary Software Engineering

Expected graduation May 2023

Relevant Coursework: Data Structures and Algorithms, Principles of Software Development OOP, Principles of Software Design, Database Management Systems, Software Testing

Languages: Java, C#, Swift, C++, C, HTML, CSS, JavaScript, TypeScript, SQL, Processing, MIPS assembly

Technologies: BootStrap, AngularJS, AWS, Azure, MySQL, MSSQL, Git, three.js, SeleniumUI, MongoDB, RXJS, Entity Framework, Linq, Moq, JUnit, Lambda, DynamoDB, DDB Streams, Cloudformation, Cloudwatch, Simple Email Service

Work Experience:

Amazon - Software Development Engineering Intern

May 2022 - August 2022

- Automated Profitability Management (APM) - Supplier Contract Optimization (SCO) team.
- Designed and developed a new generic/reusable email service for Automated Vendor Negotiations (600,000+ users).
- Email Service will soon be in production use, and will send 45,000+ emails a month.
- Ability to save email artifacts for later investigation, and collect email metrics on emails sent out.
- Emails are tagged with specific workflow name, in order to later organize email metrics collected.
- Email Metrics Collected include Email Sent, Email Delivered, Link Clicked, Email Rejected, Email Opened, etc.
- Technologies Used: AngularJS, TypeScript, Express, Java, AWS, Lambda, DynamoDB, DDB Streams, Cloudformation, Cloudwatch, Simple Email Service, JUnit, Git
- Received return offer.

Arcurve - Software Developer Intern

May 2021 - April 2022

- Collaborated on a full stack web application for monitoring/visualizing/predicting gas delivery information .
- Application is currently used by numerous fortune 500 companies.
- Developed features using AngularJS and C# that are currently in production use.
- Created SQL deployment scripts to manipulate up to 200,000 rows of data in a MSSQL database.
- Developed UI test using SeleniumUI in C#.
- Participated in all aspects of the agile method.
- Worked with local brewing company to fundraise over \$4000 for the Calgary Women's Emergency Shelter.
- Sample Feature: Developed system for saving state of display grids after modification. User actions included, changing grid column order and toggling column visibility.
- Technologies Used: AngularJS, TypeScript, BootStrap, C#, SQL, MSSQL, CosmosDB, Azure, ASP.NET, SeleniumUI, Entity Framework, Linq, Moq, Git

Projects:

Portfolio Website: Nick9lee.me

Plus 15

- IOS app created in Swift for navigating the indoor hallways, connecting Calgary's downtown office buildings.
- Displays user location, 16km of indoor hallways, and where to find lunch.
- Utilizes two unique API endpoints from Calgary Open Data.

Pathfinding Algorithm Visualizer

- Application to visualize pathfinding/search algorithms such as BFS, DFS and A*.
- Developed in Swift for IOS.

3D EEG Realtime Data Visualizer - NeuroNexus Hackathon 2020 - 60 days

- Created a Real-time visualization of large-scale dynamic functional brain networks from EEG recordings.
- Worked with JavaScript utilizing the three.js library to develop a 3D visualization from processed EEG data.

Student Registration System

- An application written in Java that emulates a student registration system.
- Implemented Client/Server Architecture and multithreading to accommodate multiple users in concurrency.
- Used a MySQL database to hold information of students and classes.

Volunteer Work:

Robogals - Mentor

March 2022 - Present

- Guiding 2 ambitious students on their internship search.

Calgary Active Habit Association - Head soccer Coach/Trainer

Sep 2017 – June 2019

- Head coach of 3 unique soccer teams of up to 12 children with ages ranging between 8 and 12.