Austin Varghese

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Education

University of Guelph — Guelph, ON, Canada
Bachelor of Computing, Software Engineering - Minor in Business — *Sep 2019 – Apr 2023*

- Graduated with Distinction - Achieved CEPS Dean's Honours List from 2019-2023
- GPA: 85.194

Technical Skills

Programming Languages: C, Java, JavaScript, Python, SQL, Ruby, Dart, C++, C#, HTML, CSS
Cloud Services: AWS (Lambda, DynamoDB, S3), Azure, Google Cloud
Databases: MySQL, Firebase
Frameworks: Node.js, React.js, Express.js, Flutter, Unity, Next.js, Ruby on Rails,
Tools: Git, JQuery, AJAX, Docker, Android Studio, Bootstrap, Playwright, JUnit, libxml, Linux, Tailwind, Figma

Experience

Quality Intern — May 2021 – Apr 2022
Hammond Power Solutions — *Guelph, ON*

- Created a Sharepoint form to help employees categorize issues, this system has helped all of the Guelph plant become faster and more efficient than before
- Collaborated with other co-workers to develop new ideas with Microsoft Teams
- Used Microsoft Word, Excel Spreadsheets and Visual Basics to create automated forms.

Projects

Horror Maze Game | *Unity, C#* — April 2023

- First-Person Horror Maze Game using Unity 3D and C#
- Can freely run around the maze and collect power ups to counter the monster which chases you
- 2 Levels have been created with different settings, monsters and items

Plant Care Mobile App | *Flutter, Dart, Figma, JSON* — April 2023

- Flutter application to manage and track a user plants for mobile, designed with Figma
- Plants have multiple fields such as watering days, amount of water, light level and light type
- Ability to upload photos of plants from gallery or camera
- Can add notes to each plant to keep track of how they are doing
- All information for each plant stored in JSON

VM Deployer | *Azure, GCP, Python* — Mar 2023

- Python application that automates creation and deployment of Virtual Machines on Azure and Google Cloud
- Using Azure CLI and GCP CLI to create virtual machines
- Ability to add additional fields such as the size of the VM and the ports you would like to open (http, https)
- The script will store a log of information regarding the status of the VM's created

DynamoDB Country Report | *AWS, Python, Boto3, DynamoDB* — Feb 2023

- Python software that creates Country Reports from AWS DynamoDB tables
- Ability to create and delete tables and single records in DynamoDB
- Able to load DynamoDB tables from CSV files
- Can modify values stored within DynamoDB

AWS S3 Management Shell | *AWS, Python, Boto3, S3* — Jan 2023

- Python software that creates a shell that can manage files and folders in S3 as well as local bash
- Ability to create buckets and folders as well as delete buckets and folders in S3 resource
- Can copy and move files from local to S3
- Has full local bash shell functionality as well

CupThrow | *Ruby, Rails, HTML/CSS* Nov 2022

- Made a Ruby on Rails project where you can play a game of CupThrow
- Ability to Sign-up and Sign-in with encrypted passwords using bcrypt
- Full-stack project made with Ruby on Rails with an MVC structure

UniSearch | *JavaScript, Python, Playwright, React.js, Flask, NGINX* Jan 2022 – Apr 2022

- Developed a Full Stack university course search Web App with a team through git in an agile work environment
- Scraped university data with playwright then parsed in JavaScript to create JSON
- Python back-end with Flask API and React front-end with HTML/CSS
- Ability to search and graph courses from University of Guelph and Univeristy of Waterloo

GPX Parser Website | *C, JavaScript, MySQL, Node.js, Express, JQuery, HTML/CSS* Jan 2021 – May 2021

- Created a full stack web-application to display information regarding GPX files uploaded by the user, including the ability to download the GPX files itself
- Front-end implemented with HTML/CSS and Bootstrap to display front-end components
- Used JQuery / Ajax to handle API calls to the back-end
- Utilizes MySQL databases with multiple queries to save instances of GPX files uploaded on the website upon user request with front-end elements.

Electronic Store Search GUI | *Java, Gradle, JUnit* Nov 2020

- Developed a Java program which allows users to add products with various details or search through previously added products, these products were stored as classes
- The GUI implemented used the Swing class
- Gradle was used as a build tool to compile and test all Java files and functions with JUnit