

# Will Howell

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## EDUCATION

### University of British Columbia

Vancouver, Canada

*Bachelor of Science in Computer Science, Minor in Biology*

*Sept. 2017 – April 2024 (Expected)*

- Major GPA: 83/100, Deans Honour List 2020, 2021, 2023

## EXPERIENCE

### Genesys

May 2023 – Present

*Software and Data Engineer Intern*

*Remote*

- Built backend **data processing pipelines** with **Python, Java, Hadoop and Apache Airflow** for converting large scale conversation data and metrics from **Kafka Topics** into **AWS** Elasticache, **Druid**, and Data Lake storage
- Rebuilt pipeline architecture to **dynamically scale CPU allocation** to adjust for **millions** of data entries being processed per day
- Optimized pipeline to run **87% faster** by updating data upload to modern Druid processes and combining pipelines to perform both data ingest and upload

### Launch Pad

Dec. 2023 – Present

*Software Developer*

*Vancouver, BC*

- Built backend and full **API** for a **MySQL** database that serves club member portals at UBC
- Used **GoogleAuth** and **PlanetScale** to achieve user authentication for database access via React.JS frontend

### Rivian Automotive

Sep. 2022 – Apr. 2023

*Software Engineer Intern (Full Stack) - 8 month*

*Vancouver, BC*

- Created **cloud services** with **Node.JS & GraphQL** to provide the backend data processing for the native **mobile app** and vehicle. Completed the **backend API** architecture for a mobile feature that was released to **30,000+** customers & handled **1.3 millions endpoint hits** in first month released
- Used **AWS** cloud technologies to store data via the **S3 API** and host backend services via **EC2** instances
- Created internal tool to allow testers to automatically report bugs directly to Jira, via the **Jira API**

## PROJECTS

### Costli 🎯 | *React Native*

May 2023 – Present

- Developed **mobile application** using **React Native** that empowers users to regain control over their digital habits by implementing a unique financial incentive system
- Rather than limiting a user time allowed spent in distracting apps, Costli requires users to spend money to use these apps

### Fordle 🎯 | *Javascript. HTML, CSS*

Feb. 2022

- Game built based on popular internet word game: "Wordle", but this uses four-letter word; with my own styling and implementation with **1000+ monthly users**
- Used **JavaScript** to create **interactive web-app** with **local storage** for daily user progress, custom CSS styling

### UBC Grades Database 🎯 | *Typescript, REST API*

Jan. 2022

- Parsed a database of UBC course grades and buildings information into a custom database. Created a **backend web server** that connects to a **front end via a custom built REST API**.
- Frontend built using **JavaScript and HTML**, backend built with **TypeScript, Node.js, Express.js** via. **test driven development** using **Mocha**
- Allowed users to search for information data about course grades

### Stock Sentiment Analysis on Reddit.com 🎯 | *Python, PostgreSQL*

Sept. 2022

- **Python script** to **scrape Reddit** comments and posts for trending stocks, storing in **PostgreSQL instance**
- Uses the PushShift API ([github.com/pushshift/api](https://github.com/pushshift/api)) for access to Reddit.com endpoints

## TECHNICAL SKILLS

**Languages:** JavaScript, Typescript, Python, Java, SQL, HTML/CSS, R

**Frameworks:** Node.js, GraphQL, React, React Native, JUnit, Apache Airflow, Hadoop

**Developer Tools:** Git, Docker, Jenkins, AWS (S3, EC2, EMR, Elasticache), VS Code, PyCharm, IntelliJ,