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

EXPERIENCE

Genesys   May 2023 – Present
Software and Data Engineer Intern   *Remote*
- Built backend **data processing pipelines** with **Java, Hadoop, Python and Apache Airflow** for converting conversation data and metrics from **Kafka Topics** into **AWS** Elasticache, **Druid**, and Data Lake storage
- Optimized pipeline to run **87% faster** by updating data upload to modern Druid processes and combining pipelines to perform both data ingest and upload

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**

Launch   May 2022 – Aug. 2022
Software Developer   *Vancouver, BC*
- Built **full-stack web app** for a live portal to host online events for **1000+ concurrent users**
- Used **Next.JS, Firebase, React.js** to create a **modern, reactive application**

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 REST API** I built.
- 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) 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,