

David Lu

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SKILLS

- **Languages:** Java, C++, JavaScript, Python, SQL, HTML, CSS, C, C#, Bash
- **Tools:** React, Node.js, Express.js, Unity, Linux, MySQL, UNIX, Git

EXPERIENCE

FirstScreen | Full Stack Developer (Remote) May 2021 – August 2021

- Created pages in the dashboard for vaccinations and attendance, with **HTML** components and **SASS** styling
- Processed data from **SQL** database into a vaccines table, using **Express.js** API fetches on **Node.js** backend
 - Added functionality like adding new vaccine entries, exporting table to csv, editing profiles and filtering
- Wrote **SQL** queries to grab employee information and create unique UUIDs to hide sensitive information
- Implemented a PIN generation tool for security, which would become invalidated after 24 hours, fully integrated to update the database when a new PIN is generated/deleted, or when a PIN becomes invalid

Gradient Ascent AI | Full Stack Developer (Toronto, ON) January 2020 – April 2020

- Parsed JSON data using **Python** into **MySQL** to create a database, and used it to create a dashboard for users of the “Greeter” app
- Wrote **Python** image scraping scripts to help further train the ML model for “Greeter”
- Improved the “Greeter” app’s accuracy to **95%** for recognition of new PPTs such as hard hats and lab coats

C.I. Investments | Project Change Manager (Toronto, ON) May 2019 – August 2019

- Implemented a **VBA** script for data cleanup; improved automation and saved up to **2 hours** per usage
- Wrote a Perl script for database refresh which improved daily workload efficiency by **60%**
- Analyzed and fixed **bash scripts** for daily production cycles

PROJECTS

Pokebank – React, JavaScript, Node.js, Firebase API, Voiceflow API

- Banking/Savings app meant to incentivize young people to put money in their savings accounts early
- App is linked to user’s bank account and would check whether weekly/monthly goals, and reward users

Glasswings – Python, Django, AWS Sagemaker, Environmental APIs, Insurance APIs

- Crowd sourced insurance web app meant for youth to use as a reference for insurance pricing
- Built using an ML model to give an insurance price estimate based on location of user

Conway’s Game of Life – Java, JavaFX, Gradle

- Conway’s game of life with animations, and functionality to create, delete, and draw custom shapes

Brick Breaker – C#, Unity

- Brick breaker game created using Unity and C#, with a full interface for scoreboard and high score display

EDUCATION

University of Waterloo September 2018 – April 2023

- Bachelor of Computer Science (BCS with Co-op)
 - Relevant Coursework: Algorithms, User Interfaces, OOP
 - Currently Taking: Human Computer Interaction, Big Data, Security