Nevil Mills

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EDUCATION

University of the Fraser Valley   Abbotsford, BC
Bachelor of Science in Computer Science   *Sept. 2015 – Aug. 2021*
GPA: 3.56

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, TypeScript, SQL (Postgres, MySQL), GraphQL, HTML/CSS
Frameworks: React, Next.js, Node.js, Express
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm
Libraries: TensorFlow, Keras, Chakra-UI

PROJECTS

Idle RPG | *TypeScript, React, Next.js, PostgreSQL, GraphQL, Redis*   Jan. 2022 – Mar. 2022
- Developed a browser-based idle game as a full-stack web application using Next.js and React as the frontend.
- Implemented an extensive GraphQL API to store player data in a PostgreSQL database.
- Designed an intuitive passive leveling system.
- Utilized Chakra-UI to create a clean and organized user interface.
- Used Redis for asynchronous tasks.

Browser Game | *JavaScript, MySQL, Node.js*   Mar. 2021 – May 2021
- Developed a single-page web application using JavaScript that interfaces with a backend built with Node.js.
- Built an extensive REST API using Node.js and MySQL.
- Utilized HTML canvas to render graphics for: character, projectiles, platforms.
- Implemented real-time updates of high-scores displayed on a global leaderboard.
- Generated clear documentation for the API using Swagger.

Image Classifier | *Python, Keras, TensorFlow*   Oct. 2020 – Dec. 2020
- Collaborated with a partner to develop an image classifier in Python using the TensorFlow and Keras libraries.
- Designed a convolutional neural network model to create feature maps from the input data.
- Trained the classifier on a dataset of over 25,000 images of cats and dogs.
- Utilized Tensorboard to optimize validation accuracy and loss.
- Achieved results of 84% validation accuracy with 36% validation loss after 8 epochs.

EXPERIENCE

Park Patrol Officer   May 2019 – Oct. 2019
Sea to Sky Park Services Ltd.   *Chilliwack, BC*
- Held responsibility for supervising over 300 campsites and providing assistance to campers.
- Patrolled the beaches and parking lots enforcing the BC Park Act.
- Coordinated with a team of up to 4 other patrollers in order to complete tasks efficiently.
- Defused volatile situations calmly and courteously.
- Drove a Ford Ranger throughout the park while performing duties and securing the park.

Cashier/Maintenance   June 2015 – May 2017
Vedder Station Shell   *Chilliwack, BC*
- Provided a high level of customer service in a busy environment.
- Operated: cashier and pump registers, credit card machines and lottery machines.
- Managed inventory, organized incoming product orders, assisted with stocking shelves and product displays.
- Handled closing and opening duties, and ensured space was tidy and ready for business each day.
- Assisted customers with issues at the pump and contacted service technicians when necessary.