

# Nevil Mills

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## EDUCATION

**University of the Fraser Valley**  
*Bachelor of Science in Computer Science*  
GPA: 3.56

Abbotsford, BC  
Sept. 2015 – Aug. 2021

## 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

**TeaRead** | *TypeScript, React, Next.js, PostgreSQL, GraphQL, Redis, Docker* Oct. 2021 – Dec. 2021

- Developed a full-stack web application using Next.js and React as the frontend serving a GraphQL API.
- Implemented functionality for users to read, create, reply to, and vote on community posts.
- Optimized data fetching for quicker loading speeds and responsiveness.
- Added server-side rendering where applicable for improved SEO.
- 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.