

# Eric Coscolluela

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## Education

<b>Simon Fraser University</b> , Burnaby, BC Bachelor of Science in Computer Science	Expected Graduation: Aug. 2025
<b>British Columbia Institute of Technology</b> , Vancouver, BC New Media Design and Web Development	Sept. 2016 - Jun. 2017
• <b>Coursework:</b> UI/UX, SEO Optimization, Web Development, Design Principles, Information Architecture	

## Technical Skills

**Languages & Frameworks:** JavaScript (React.js, Node.js, Express, Vue.js, jQuery), Python (PyTorch, Pandas, NumPy), C++ , HTML, CSS, SQL, Ruby, GraphQL

**Databases & Cloud Tools:** PostgreSQL, Firebase, AWS S3, Heroku, Docker

**Development Tools:** Git, GitHub, VS Code, Android Studio, Figma, Adobe XD, Drupal 9

## Experience

<b>Software Engineer Co-op</b> , Tegus – Vancouver, BC	Jan. 2024 – Aug. 2024
• Engineered robust data pipelines using Python, SQL, and Docker, significantly improving data processing efficiency by 65% for critical third-party data ingestion	
• Led the successful migration of complex data transformation service from C# to Python, leveraging AWS S3 for efficient and scalable data storage and retrieval	
• Seamlessly integrated cross-codebase data via GraphQL APIs using Ruby and Vue.js, enhancing data sharing capabilities and boosting overall feature functionality across the platform	
• Championed code quality and system reliability by implementing comprehensive unit and integration testing with unittest and pytest, leading to a remarkable 30% decrease in critical bug reports	
<b>Web Developer Co-op</b> , National Research Council Canada – Vancouver, BC	Jan. 2023 – Apr. 2023
• Designed, developed, and deployed impactful front-end tools in Drupal 9 using JavaScript, HTML, and CSS to effectively visualize carbon emissions and hydrogen analysis research data	
• Crafted custom JavaScript solutions and leveraged browser developer tools to enhance Drupal modules, streamline data entry, and significantly improve graph functionality through DOM analysis and code debugging	
• Proposed and implemented innovative web development strategies, including image optimization and strategic code refactoring, which collectively reduced page load times by 85% and enhanced overall user experience	

## Projects

<b>Natural Language Processing for Question &amp; Answering</b>   <i>Python</i>	Jan. 2025 - Apr. 2025
• Fine-tuned a 4-layer TinyBERT model to significantly outperform a 2-layer baseline in machine reading comprehension on the SQUAD 2.0 dataset, achieving strong results	
• Developed a question answering system using PyTorch and Hugging Face's Transformers library, demonstrating that lightweight models can achieve competitive performance with larger models	
<b>Data Analysis on Amazon Reviews</b>   <i>Python, Pandas, NumPy, Jupyter, Scikit-Learn</i>	Jun. 2023 - Aug. 2023
• Developed a sentiment analysis pipeline to classify natural language data	
• Improved classifier validation accuracy by 30% through data balancing	
• Optimized sentiment analysis and random forest training, reducing runtime by 50% via data cleaning	
<b>TV Show Database Mobile App</b>   <i>Kotlin, Firebase, Android Studio</i>	Feb. 2022 - Jun. 2022
• Developed an intuitive database Android application using Kotlin and Android Studio	
• Built a user authentication system using Firebase, allowing users to set personal playlists	
• Implemented a NoSQL database system with Firebase for storage and retrieval of movie and user specific data	