

# Gathrean Dela Cruz

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## EDUCATION

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### British Columbia Institute of Technology

Diploma in Computer Systems Technology, with Distinction

Burnaby, BC

SEP 2022 – MAY 2024

## PROJECTS

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### Nebula (Musical Instrument Detection Neural Network)

[github.com/gathrean/Nebula](https://github.com/gathrean/Nebula)

- Contributed to multi-instrument recognition research, achieving a 56% F1-score with a fine-tuned CNN, utilizing the OpenMIC-2018 dataset and processing songs into mel-spectrograms
- Presented research virtually at the WSAI 2024 conference in Guangzhou, China, and as a poster presentation at the AIM 2024 conference in San Francisco, USA

### Personal Portfolio (React-based Website)

[github.com/gathrean/Portfolio](https://github.com/gathrean/Portfolio)

- Developed and designed a responsive and accessible personal website using React JS and HTML/CSS, hosted on Vercel

### Orca Swipe (Local Events Social Media Web App)

[github.com/gathrean/OrcaSwipe](https://github.com/gathrean/OrcaSwipe)

- Contributed 15,000+ lines of code via Git, in a team of four
- Lead UI/UX design with Node.JS, Express.JS, HTML/CSS, EJS, and JavaScript, and contributing to backend development with MongoDB and Firestore Firebase
- Awarded Best UI/UX Design and Best Teamwork by BCIT

### Dungeon Quad (Pixel Shooter Game)

[github.com/BardiaTiM/DungeonQuad](https://github.com/BardiaTiM/DungeonQuad)

- Developed an endless dungeon shooter game using Java in JetBrains' IntelliJ IDEA
- Designed the sprite graphics for characters, UI, menus, background, and game art
- Served as Frontend UX Lead, integrating and developing gameplay mechanics
- Contributed to bug fixes and refactoring for enhanced game performance

### Pokemon Team Generator (Kotlin App)

[github.com/gathrean/PokemonTeamGenerator](https://github.com/gathrean/PokemonTeamGenerator)

- Built an Android app with Kotlin that integrates PokeAPI for each Pokemon's details, allowing users to log in, generate, and save random Pokemon teams using ROOM database

## TECHNICAL SKILLS

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- Languages:** Java, C, C++, Kotlin, SQL, HTML/CSS, JavaScript, R
- Frameworks:** React, Node.js, Material-UI, Bootstrap
- Developer Tools:** Git, Terminal, VS Code, IntelliJ, CLion, Android Studio, R Studio, Excel