

# Cindy Peng

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## TECHNICAL SKILLS

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**Technologies:** React.js, Node.js, MongoDB, Express.js, Unity, Docker, Insomnia, Firebase, Google OAuth 2.0, Google Client API, Git, GhostInspector, Testflight, Jira, OpenCV, Taipy, Jetpack Compose

**Languages:** Swift, Kotlin, Python, C++, C, JavaScript, Java, SQL, HTML/CSS

## EXPERIENCE

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### Android Developer

Jan. 2024 – Apr. 2024

*Wrmth*

*North Bay, ON*

- Independently developed the *Wrmth* Android app in **Kotlin** and **Jetpack Compose** using the **MVC architecture** with integration of **NFC** reading, **bidirectional BLE** communication, and **OTA firmware updates** using **ESP32**
- Implemented and tested firmware modules for an IoT Chair in **C** using the **FreeRTOS** library
- Created and extensively tested **Node.js APIs** for user authentication and authorization to a master web app using **JWT tokens**, **MongoDB**, **Mongoose**, and the **Insomnia API** platform
- Leveraged **TestFlight** to conduct comprehensive testing for the *Wrmth* **iOS** app and **App Clip**, testing successful execution of **Over-The-Air firmware updates** and sensor communication for production releases

### Project Lead

Jan. 2023 – Aug. 2023

*Electrium Mobility*

*Waterloo, ON*

- Utilized **KiCad's schematic and PCB layout** features to create a comprehensive and well-organized anti-spark circuit design implemented into the personal electrical vehicles to prevent high-voltage sparks when disconnecting
- Implemented **SPI signals** to communicate with DRV8301 motor driver and NRF23L01 transceiver module
- Modified Pulse Width Modulation duty cycle values to determine the speed of Brush less DC electric motors
- Utilizing SPI protocol to interface with a nRF24L01 module for **wireless communication** between boards

### Javascript Developer

Sep. 2022 – Dec. 2022

*Enzuzo*

*Kitchener, ON*

- Implemented client-interactive **frontend** RSS Feed from scratch using **React** framework and **Javascript** routing
- Created, managed, and **modularized 90%** of automated tests using **Ghost Inspector** for enterprise & Shopify
- Independently conducted rigorous manual testing through **XPath** targeting for staging and production

### Desktop Services Technician

Jan. 2022 – Apr. 2022

*Questrade Inc.*

*North York, ON*

- Utilized **Active Directory** service for **200** Questrade employee account creation management and termination
- Re-imaged Lenvos and Macbooks with **Powershell** scripts to add laptops to proper OU's, push GPO's and SCCM

## PROJECTS

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**Spotify Display Stats** | [🔗 https://github.com/c63peng/Spotify-Display-Stats](https://github.com/c63peng/Spotify-Display-Stats) | *Node.js, Express.js, jQuery*

- Developed a web application using **Node.js** and **Express.js** that retrieve users Spotify top tracks
- Implemented a secure **authentication flow**, including login and callback endpoints that generates a random state for CSRF protection, sets cookies, and redirects users to Spotify's authorization page.
- Employed jQuery to streamline DOM manipulation tasks, enabling dynamic content updates and simplified event handling in the Spotify authorization flow project, enhancing the user experience

**Mewzaki** | [🔗 https://github.com/k3yg4n/mewzaki](https://github.com/k3yg4n/mewzaki) | *Python, Google OAuth 2.0, pydub, moviepy.editor*

- Developed a **Python** script using **ytdlp** for automated Spotify song extraction, transformation into lo-fi variants, and subsequent upload to the Mewzaki YouTube channel
- Implemented secure **Google OAuth2** authentication for seamless access to the **Google Client API**, safeguarding client secret keys via a script-generated **token.pickle**

## EDUCATION

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### University of Waterloo

Sep 2021 - Apr 2026

*Candidate for Bachelor of Applied Science (Computer Engineering)*

*Waterloo, ON*

- Recipient of University of Waterloo **President's Scholarship**