

NIAL ZHANG

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Vancouver, BC

EDUCATION

- **New York Institute of Technology** Vancouver, BC
Master of Science in Cybersecurity *Jan 2023 - Oct 2024*
- **University of British Columbia** Vancouver, BC
Bachelor of Science in Physics *Sep 2018 - May 2022*

EXPERIENCE

- **Arspace Technology Ltd. (Start-up)** Vancouver, BC
Software Engineer (Part-Time) *Jan 2024 - Aug 2024*
 - Built and launched a cross-platform mobile application enabling users to purchase event tickets and match with potential dates, deployed on both the Apple App Store and Google Play.
 - Designed and implemented a backend using **Python Django** featuring authentication, user registration, and an admin dashboard. Integrated RESTful APIs, OAuth, and Stripe to enable rapid development and scalability; designed the relational schema and deployed the **PostgreSQL** database on **GCP Compute Engine**.
 - Utilized **Flutter** to develop a mobile frontend with a consistent UI across iOS and Android, delivering an optimal user experience.
- **New York Institute of Technology** Vancouver, BC
Teaching Assistant *May 2024 - Jul 2024*
 - Assisted a professor in delivering the **Embedded System Security** course, supporting 28 students in deepening their understanding through both academic theory and industry experience.
 - Contributed to designing and grading assignments, conducting lab sessions, and holding office hours and tutorials.
- **ezSec Inc.** Remote, Canada
Cybersecurity Data Analyst Intern *Feb 2024 - May 2024*
 - Developed a machine learning-based cybersecurity analysis framework to automatically detect threats using MITRE ATT&CK techniques and open-source data.
 - Implemented **Python** scripts to scrape, clean, and process cybersecurity alerts in Yara, YAML, and HTML formats from authoritative public sources, transforming data into CSV files for analysis.
 - Designed regex rules for alerts and mapped them to MITRE ATT&CK techniques, expanding the lookup table by 300%.
 - Enhanced an NLP model by integrating Attack Patterns from STIX, boosting accuracy from 40% to 62%.
- **iFlytek Corp.** Hefei, China
Software Engineer Intern *Apr 2021 - Aug 2021*
 - Contributed to a smart city traffic police project in **Java** for detecting if cars yielded to pedestrians.
 - Collaborated with a UI designer to implement **Vue.js** modules based on Figma designs, enhancing feature reusability and modularity.
 - Developed an API using **Java Spring Boot** and an **OpenCV** model to analyze live camera feeds, improving detection accuracy by 25%.

PROJECT

- **Time Management Web App:** Developed a time management web application using a full JavaScript stack with React for the front end and Node.js with Express for the RESTful API. Followed SDLC and Agile methodologies, implemented comprehensive QA testing (including API/integration tests through Postman), and managed version control with Git.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript
- **Front End:** Vue.js, React, Flutter, HTML5, CSS3
- **Back End:** Node.js, Spring Boot, Django
- **Cloud:** GCP (IAM, Cloud Storage, Compute Engine, APIs & services)
- **Database:** SQL Server, MongoDB, SSIS, SSMS, SQL Report Builder