

# Elio Di Nino (He/Him)

**Software Developer**

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## Education

**University of British Columbia**

**Expected May 2025**

*Bachelor of Applied Science - Computer Engineering*

Dean's Honour List - CGPA: 88.0% | 3.9 / 4.0

Co-op: Available for 4 months beginning May 2023

**Coursework:** Software Construction, Computer Hardware, Data Structures and Algorithms, Math Proofs, Linear Algebra

**Presidential Scholars Award – UBC** (2021, Recurring)

- Awarded based on strong academics, leadership skills, and strong future potential. Received the BMO Financial Group National Scholarship, a 4-year renewable award at \$10,000

## Technical Experience

**UBC Uncrewed Aircraft Systems**, Student Design Team

**Software Co-Lead**

**June 2022 – Present**

- Trained for and acquired a Canadian Advanced RPAS License to fly team drones at competitions
- Decreased microservices in use by 50% to increase simplicity and reliability after co-designing a new software suite
- Increased year-over-year project completion by 40% by better managing and supporting 18 members where needed

**Software Developer**

**Sept 2021 – June 2022**

- Revamped ground control software by updating a backend API, integrating a Django server with a React application, and adding a login page to connect to competition servers
- Improved cross-platform compatibility with the use of Docker to better package programs
- Reduced image streaming latency from 12s to 1s by configuring an onboard Linux microcomputer remotely with SSH

## Projects

**Personal Website** ([eliodinino.com](https://eliodinino.com))

**Aug 2022 – Present**

- Built a React website with Typescript and MUI, then hosted it on Netlify to increase online presence
- Optimized images by using modern formats (WebP and AVIF) and dynamic sizing, leading to 155% faster load times
- Created a responsive layout to support mobile devices with the react-responsive library and CSS media queries

**Multi-Client Server** ([Description](#)), CPEN 221

**Nov 2022 – Dec 2022**

- Constructed a Java server supporting multiple simultaneous clients capable of interacting and fetching Twitter data
- Enabled dual-server routing so that either server can be connected to, and no interruptions occur if one goes offline
- Followed security protocols by hashing and salting all passwords and encrypting incoming and outgoing data via AES

**Simple RISC Machine**, CPEN 211

**Nov 2022**

- Implemented a Turing Complete 16-bit RISC machine using System Verilog on an FPGA board in 3 weeks
- Subdivided the machine into smaller modules to be designed, tested, and debugged more easily
- Utilized pipelining to increase operations per cycle by 300% and go beyond course expectations

**SSC Scripts** ([GitHub](#)), University of British Columbia

**July 2022**

- Automated checking of UBC's Student Service Center for new information such as grades to save students' time
- Gained experience with Selenium's WebDriver in Python, allowing for the automation of any browser task

## Other Experience

**JOEY Restaurant Group**, Vancouver, BC

**July 2020 – Sept 2021**

**Online Sales Manager**

- Led a team at the Burrard location to manage \$30,000 in DoorDash sales weekly
- Streamlined employee tasks and onboarding by creating easy-to-follow lists and instruction documents
- Collaborated with 7 other managers to train employees, perform weekly liquor inventory, and order essential items to maintain in-person and online operations

## Skills

- **Languages:** Java, Python, JavaScript, TypeScript, C, HTML & CSS, System Verilog, ARM Assembly
- **Tools & Frameworks:** Git, SSH, Linux, Docker, Google Cloud, React, Selenium, Django, Junit, REST APIs, Quartus
- **Interests:** Landscape Photography, Soccer, Cycling, Skiing