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%

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% after co-designing a new software suite for 2 competitions
- Achieved 60% software sub-team task completion in 3 months (with 4 more months until competitions) by managing tasks 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)   **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, CPEN 221   **Nov 2022 – Dec 2022**
- Constructed a server supporting multiple simultaneous clients capable of interacting and fetching tweets from Twitter
- 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
- 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, MUI, Selenium, Django, Junit, Quartus
- **Interests:** Landscape Photography, Soccer, Cycling, Skiing