Elio Di Nino

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Markham, ON
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Skills & Interests

- **Languages:** Java, Python, Golang, C/C++, SQL, JavaScript, TypeScript, HTML & CSS, Terraform/OpenTofu, Ruby
- **Libraries & Frameworks:** REST APIs, Gradle, JUnit, Pytest, Selenium WebDriver, Flask, Django, React, Cypress
- **Tools:** Git, SSH, Linux, Docker, Artifactory, Kubernetes, Jenkins, GitHub Actions, Grafana, Google Cloud, Postman
- **Interests:** Landscape Photography (5 yrs), Drones (Advanced License), Cycling (2700 km/yr), Travelling (8 countries)

Education

University of British Columbia Expected May 2026

Bachelor of Applied Science - Computer Engineering Dean's Honour List - CGPA: 87.7% | 3.8 / 4.0

Awards: UBC Presidential Scholars Award ($40,000), ECE Undergraduate Scholarship ($2,500)

Experience

IBM Jan 2024 – Present

Software Developer Intern *Markham, ON*

- Saved $4,000/month and streamlined overall alerting by migrating all Kubernetes monitoring from Sysdig to Instana
- Developed a custom JupyterLab Docker image and TypeScript API proxy service to allow 7 million users free access to the OpenAI and watsonx.ai APIs
- Resolved over 50 security vulnerabilities across various container images by fixing broken GitHub Actions workflows

D-Wave Quantum May 2023 – Sep 2023

DevOps Co-op *Burnaby, BC*

- Implemented a new Kubernetes-based development platform utilizing Terraform to automate setup and define infrastructure as code, simplifying programming environments for over 80 individuals and boosting efficiency by 20%
- Centralized company Docker images in a single repository that automated all build, testing, and publishing steps with only 6 lines of configuration per image, eliminating redundant Jenkins pipelines and improving overall organization
- Developed Grafana dashboards integrated with Prometheus metrics, enabling real-time monitoring of service health and key statistics, resulting in improved visibility and informed decision-making
- Pioneered a Terraform provider template in Golang which allowed multiple internal providers to be created and automatically deployed to Artifactory for general use

UBC Uncrewed Aircraft Systems, Student Design Team Sep 2021 – Present

Captain // Software Co-Lead // Software Developer *Vancouver, BC*

- Led a team of 70+ cross-discipline students and managed a budget of $50,000 to compete in 2 competitions annually
- Revamped the team website using an opensource Go framework (Hugo) to decrease load times from 10s to 0.7s
- Improved the cross-platform compatibility of our simulation software with Docker containers and made multiple GitHub Actions workflows to eliminate manual builds and deployments (UASITL)
- Implemented a command relay that wirelessly sent serial signals to an Arduino and our flight controller (ACOM)
- Reduced image streaming latency from 12s to 1s with a shell script running on an onboard Linux microcomputer

Projects

3FA – Multi-Factor Authentication System (GitHub, Demo Video)

- Created a backend API in Python using Flask and SQLite to authenticate simultaneous users and serve files
- Designed and implemented the authentication flow which included session and authentication tokens, encrypted communications, hashed passwords, and automatic timeouts to meet OWASP security standards
- Reduced manual work by 7x with GitHub workflows to automate testing for all parts of the system, create app releases and executables, package the backend as a Docker image, and automated dependency updates
- Used Pytest to achieve 98% line and branch coverage as well as set up Postman to improve manual testing

Multi-Client Server (Description), CPEN 221

- 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