

# Ryan Vu

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## Education

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**California Poly Technic University, Pomona (GPA: 3.97),**

Pomona, United States

*Bachelor of Science in Computer Science*

- Vietnamese Student Association (VSA): Intern (2024-2025), VCN Director (2025-2026)
- Data Science & AI Club
- Competitive Club Tennis Team

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## Professional Experience

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**Circulation Desk Student Assistant**, *California Poly Technic University, Pomona*

08/2025 – Present

Pomona, California

- **Front-line customer service** in a **fast-paced** academic setting
- Check materials in and out using **ALMA System**
- **Assist students and faculty** with account inquiries and general campus aid

**Fire Detection and Suppression Team (Ground Control Systems)**

02/2025 – present

Pomona, United States

- Build a **Qt/QML + C++ ground control dashboard** that enables **multi-UAV command** with a **clean scalable UI**
- **Collaborate** with Machine-Learning team to integrate **real-time** fire detection feeds
- Focus on **operator UX**, **multi-UAV state awareness**, and **robust telemetry display**

**Health Information Technician / Intern**, *Bach Diagnostics*

08/2020 – 08/2024

Irvine, California

- Developed **macros** to **streamline workflows** and reduce manual steps
- Contributed to **lab research** in separating PBMCs/T-Cells from whole blood using **Hamilton Microlab STAR Liquid Handler** functions
- **Collaborated** with billing and lab teams to **standardize documentation**

**Software Lead**, *FIRST Robotics Competition Team 4322*

08/2020 – 05/2024

Orange, United States

- Led software subteam; **Organized training** for new members during off-season
- **Delivered reliable robot control code** that contributed to the team's **first regional win** at the **2024 Aerospace Valley Regional**.
- **Coordinated** across **mechanical**, **electrical**, and **drive teams** to turn requirements into **production-ready** robot code

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## Certificates

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- DHS Section 508 Trusted Tester

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## Skills

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Languages: Java, Javascript, QML, C, C++, Git

Relevant Coursework: Systems Programming, Data Structures and Advanced Programming, Computer Organization and Assembly Programming

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## Publications

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**Automation for the Isolation of Peripheral Blood Mononuclear cells (PBMCs) with Hamilton Robotics for T-Spot Testing**, *Association for Diagnostics & Laboratory Medicine*

2024