Radin Ahmadizadeh

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EDUCATION

University of California, Irvine   **September 2022 – July 2026**
B.S. in Computer Engineering, Minor in Informatics
GPA: **3.81**

SKILLS

- **Programming Languages**: Python, Java, Visual Basic, Dart, C++, JavaScript, SQL, React
- **Frameworks:** AWS, Flutter, Godot
- **Tools:** GitHub, FactoryTalk View, Studio 5000, Microsoft Excel, Fusion 360 CAD and CAM, AutoCAD CAD and Electric

EXPERIENCE

Info Street – Software Development Engineer Intern   **September 2024 – Present**

- Utilized **AWS** Serverless Application Model (**SAM**) and **AWS API Gateway** to migrate server-based code to a serverless architecture using **Python**, enhancing scalability and reducing operational **costs by 17%**.
- Worked with a team of three developers using **GitHub** to optimize and refactor the existing codebase, increasing application **performance by 15%** and reducing **latency by 25%**.
- Developed and integrated **RESTful APIs** to support new front-end features, enhancing user experience and functionality.
- **Technologies**: AWS, SAM, API Gateway, Lambda Functions, Python, GitHub

M & O Perry Industries – Software Engineering Intern   **May 2023 – August 2024**

- Collaborated with a small engineering team to design, assemble, wire, and program custom industrial machines using **FactoryTalk View**, **Studio 5000**, and **AutoCAD** Electrical.
- Developed **Python** tools to automate engineering data entry, reducing input time from **half a day to minutes** through system integration and removing human error through automation.
- Engineered innovative solutions to upgrade outdated machines, **increasing production speed by 15%** and **reducing product waste by 33%.**
- Developed **SQL scripts** to manage file storage and retrieval on HMIs using **Visual Basic.**
- Programmed PLCs and HMI machines using **FactoryTalk View** and **Studio 5000.**
- **Technologies**: Python, SQL, FactoryTalk View, Studio 5000, AutoCAD, GitHub

M & O Perry Industries – Programming Contractor   **January 2023 – May 2023**

- Used ladder programming and **Studio 5000** to design code architecture and program PLCs, and **FactoryTalk View** to program and install matching HMIs on each machine.
- Streamlined product-filling algorithms to **increase output rates** and reduce jamming by **over 20%.**
- **Technologies**: Studio 5000, FactoryTalk View

First Robotics Competition – Mentor, Captain, Programing Lead   **January 2019 – Present**

- Guided and mentored high school students in robotics programming using **Java**, fostering skills in programming and problem-solving.
- Led a team of 30 students to design and build robots to compete against 3000 global teams, achieving two regional first-place and several regional finalist awards.
- Directed a team of four programmers, utilizing **Java** and the **WPI Library** to develop autonomous and teleoperated robot movement.
- Utilized **image processing** and field-oriented odometry to detect game elements and auto-navigate to goal zones, decreasing cycle times **by 40%**.
- **Technologies**: Java, Image Processing, GitHub

RESEARCH and PROJECTS

Environmental Research Project – Developer, Researcher   **March 2024 – Present**
- Developed tools to analyze hyperspectral data to identify subsurface heavy metals, bones, and other environmental pollutants using satellite pictures.
- Leveraged **Python**, **NumPy**, and **TensorFlow** to efficiently process and analyze large-scale datasets.
- Implemented a two-stage enhancement process, using **Convolutional Neural Networks** and several **web APIs** for data enhancement, fusion, and detailed subsurface geological analysis.
- **Enhanced data quality by 40%** and **reduced noise by 15%** by implementing innovative solutions to work around the limited accuracy and reliability of the data.
- **Technologies**: Python, Numpy, Tensorflow, Machine Learning, GitHub

Raad Var Inc. Programming Bootcamp – Founder, Head Instructor   **July 2019 – August 2021**

- Educated elementary and middle school students in programming using Python to raise money for charity.
- Planned the curriculum and coordinated 3 CS major student-teachers over a month-long boot camp.
- Taught 20+ students and **raised over $3000** over two summers.
- **Technologies**: Python

Hackathon & Game Jams – Lead Programmer, Team Founder   **2017 – 2023**
- Hackathons
    - 1st out of 25 **(2017)**, 1st out of 20 **(2019)**, 1st out of 35 **(2021)**, 3rd out of 150 **(2022)**
- Game Jam (Ludum Dare); Over 1800 participating teams **(2019 – 2021)**
    - Top 14.2% **(2019),** 21% **(2020),** 8.1% **(2021)**
- Bear Jams at UC Berkeley; **2nd place out of 35** other UC Berkeley students **(2022)**
- SB Hacks X at UC Santa Barbara, **4th place among 400** other UCSB Student contestants **(2023)**
- **Technologies**: Python, Java, JavaScript, Google Firebase, Postman, Flutter, Godot, GitHub

OTHER

- **Certifications & Training:** CompTIA ITF+ Certification, AWS Lambda and Serverless Architecture Course
- **Languages**: English (native), Farsi (native), Spanish (intermediate)
- **Hobbies:** Skiing, Fencing, Piano