

# Noah Pragin

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## Summary

Versatile technologist bridging software and hardware with a proven track record in UAV systems, autonomous vehicles, and cloud solutions. Showcases ability to master new technologies and deliver critical solutions, from optimizing drone network performance to streamlining autonomous vehicle diagnostics. Balances technical acumen with interpersonal skills, adding value in leadership and individual contributor roles. Champions a pragmatic, tool-agnostic approach.

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## Education

**B.S. Computer Science**, *Expected Jun 2026*

**Oregon State University** - Corvallis, Oregon

- FSAE / Global Formula Racing
- Teaching Assistant for Intro to Computer Science II
- New Member Educator and Webmaster at Sigma Chi
- Honor Roll, Jan 2024 - Present

### Relevant Coursework to be Completed by Summer 2025:

- Machine Learning, Deep Learning, Computer Vision, Intelligent Robots, Applied Robotics, 3D Graphics for Data Visualization, Statistical Analysis, Computer Architecture, Operating Systems, Computer Networks

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## Skills

**Programming Languages:** JavaScript, TypeScript, Python, C++, Java, PHP, Swift, HTML, CSS

**Front-End Technologies:** React, Next.js, Styled Components, JoyUI

**Back-End Technologies:** Django, Node.js, ROS, Express.js, PostgreSQL, RESTful API Design

**Tools & Skills:** AWS Architecture + Integration, GStreamer, Docker, Jenkins, CI/CD Pipelines, Agile (Scrum), JUnit, Jest, Database Management (SQL, NoSQL), Algorithm Design, Web Development, IaC (Terraform), matplotlib, pandas, NumPy

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## Experience

**Software Engineer, Intern**, Jun 2024 - Sep 2024

Stealth Startup - Santa Clara, California

**Stack: Django, React, GStreamer, PostgreSQL, ELK, MQTT**

- Delivered safety-critical UAV software and a cloud-based fleet management platform in a startup environment, collaborating closely with a cross-functional team of ~10 hardware, embedded, and drone experts.
- Enabled ML analytics via a cloud-based service for long-term telemetry data storage via PostgreSQL and Django.
- Developed an on-board network benchmarking service to monitor latency, bandwidth, and signal strength, driving a 30% increase in mission-critical data flow consistency.
- Implemented user auth middle-ware for Janus, a video conferencing WebRTC server, enhancing security and eliminating unauthorized access incidents.
- Designed and developed 30+ RESTful API endpoints within 3 weeks using Django, establishing the foundation for user management, drone onboarding, and campaign management to meet aggressive MVP deadlines

**Automated Systems Engineer**, Feb 2024 - Present

Global Formula Racing - Corvallis, Oregon

**Stack: ROS, C++**

- Collaborated with a global, cross-functional team of 10+ in preparing software for international autonomous racecar competitions, independently managing projects from conception to integration.
- Reduced debugging time by ~40% via health check migration from terminal debugging to system-wide diagnostic nodes, including SLAM, LiDAR, YOLO, camera, sensor fusion, and boundary and trajectory planning.
- Facilitated regular communication channels with alumni and faculty advisors to ensure project alignment.

**Application Developer**, Jun 2022 - Jun 2023

**Application Developer, Intern**, Feb 2022 - Jun 2022

ClearScale - San Francisco, California

**Stack: Express.js, React, AWS, DynamoDB**

- Developed a web application and RESTful API for monitoring cloud infrastructure as part of a 6-member team.
- Conducted 5+ client interviews, mapping customer journeys and driving a 100% increase in customer enrollment.
- Exceeded Sprint goals 85% of the time while completing AWS certification concurrently with full-time employment
- Resolved 40+ urgent hotfixes during peak usage hours, collaborating closely with DevOps.
- Reported development progress to cross-functional stakeholders, emphasizing product value enhancements.

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## Certifications/Awards

- AWS Certified Cloud Practitioner, 2022