Alvin Phan

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EXPERIENCE

Argo AI | Palo Alto, CA

Technical Program Manager, Autonomy Software   Oct. 2021 - Present

- Organize numerous autonomous vehicle functions (i.e. SW Update, Product Security, OS, Networking, Connectivity and Manufacturing SW) by creating quarterly plans and long-term feature roadmaps to align with business objectives and support the execution of Argo's pilots with Walmart and Lyft (thousands of jobs completed over two cities)
- Coordinate multiple engineering teams' sprint plans, reviewing with stakeholders to get alignment on timelines.
- Lead cross-functional efforts to improve platform reliability of the AV through: introducing optimizations and reducing bugs during vehicle start-up (40% time improvement), and improving SW deployment times.
- Responsible for various external meetings (incl. Ford, VW, Intel, manufacturers) to coordinate new system integration bring-up/testing, prioritize support and ensure software changes are delivered as needed.

Bossa Nova Robotics | San Francisco, CA

Software Engineering Manager   Mar. 2019 - May 2021

Work with an engineering team to develop software (tools, scripts, and systems) used to test and calibrate hardware, conduct robot test automation, and manage infrastructure at factories. Created and drove the engineering roadmap for robot testing.

- Worked on 6+ different hardware systems/platforms and shipped over 800+ robots to production as a group
- Started as the first hire on a new engineering team and led its growth to 6 engineers and other technicians/contractors.

Software Engineer, Infrastructure (DevOps/Site Reliability Engineering)   Aug. 2017 - Mar. 2019

- Supported bring-up of the robot manufacturing line and test process, developing scripts and supporting operations.
- Developed software to monitor and measure various robot metrics to analyze its performance and reliability.
- Worked with system engineering to integrate third party components (i.e. sensors) into the robotic platform.
- Performed software QA testing and hardware/system failure analysis.

Fabrinet West | Santa Clara, CA

Quality System Engineer   Jan. 2017 - Sep. 2017

- Executed program changes from inception to implementation; working with external clients (incl. Nvidia, Tesla and Intel) to understand their needs and requirements, and translating that into a development roadmap for engineering.
- Developed business systems to monitor factory production status and metrics. Created tooling that generated quality/operation reports for internal management reviews and external customer quarterly business reviews.

University of California | Irvine, CA

Web Developer / Accounts Manager   June 2014 - Apr. 2016

Developed and maintained various university websites and administrative web tools using javascript, PHP and mySQL. Implemented bash and Python scripts to automate server tasks to support university tech/web server operations.

EDUCATION

University of California, Irvine | Bachelor of Arts in Political Science   September 2016.

- *Senate President, Chief Technology Officer,* Associated Students, UC Irvine; *Analyst,* UC-Council on Student Fees

AWARDS

- Antleader Spotlight Award, UC Irvine Dean of Students.   June 2015.
- Lifetime Achievement Award, Associated Students, UC Irvine.   May 2015.
- Eagle Scout, Boy Scouts of America.   September 2011.