

Solutions Architect in Portland, OR

I am an Solutions Architect experienced in full-stack AI/ML production engineering. My experience ranges from Unicorns to Defense, from routing PCBs to architecting high-throughput, low-latency cloud computing AI/ML systems. My hardware designs and software implementations have been in space, military training, consumer hands, and manufactured in large-scale, 6-figure production runs. I've lead small, focused teams and larger cross-disciplinary teams (30+ engineers). I have architected Big Data platforms, pioneered R&D efforts, authored whitepapers and evangelized products to clients and investors. My experience is broad – and I'm always looking for something new to learn.

EXPERIENCE	Solutions Architect Modzy <ul style="list-style-type: none">• Design and presentation of technical solutions and demonstrations, including building a library of re-usable content, templates, Notebooks, recorded presentations and public documentation.• Systems integration and implementation on customers' technical stacks including POC and POM systems, readiness assessments, early customer deployments and continuing support as technical advisor and liaison.• Developer advocacy, outreach and evangelism for our product, SDKs and opensource efforts through tech talks, blog posts, events, meetups, and community outreach.	11/2020 - Current Portland, OR <i>(remote)</i>
	Staff Solutions Architect, IoT System Architect Uptake <ul style="list-style-type: none">• Founded the Sales & Solutions Engineering group to interface between clients and Uptake's sales force on all technical matters including live demonstrations, technical presentations, readiness assessments, POC/POMs, API integrations and proposals. After 1 year, a deal was 60% more likely to be signed when a Sales Engineer was part of the process.• Authored technology roadmaps, IoT strategies, data migration, disaster recovery and data backup strategies and cloud performance tuning for many clients, reducing recurring costs by 6 figures and ensuring long term relationships.• Recruited and lead a team to to develop, design, produce and maintain novel IoT hardware and cloud architecture, data ingestion, ETL, and device management for over 20 enterprise clients.• Managed R&D and special projects teams to rapidly ingest, transform and visualize data, to build POC and POM systems directly resulting in 6+ multi-million dollar deals in Energy, Fleet and Defense verticals and the opening of 2 new lines of revenue.	02/2015 - 10/2019 Chicago, IL
	Director of Instrumentation and Simulation Technology Insertion – Hardware ; TS clearance SRI International <ul style="list-style-type: none">• Directed the FlexTrain Hardware R&D team to develop sensors and systems for a realtime asset tracking platform. Reduced production and fielding cost by 80% while improving reliability and throughput by an order of magnitude, increasing profitability enough to spin the technology into a spinoff.• Accelerated use of geospatial technologies, virtual terrain generation and neogeography to dramatically reduce data gathering costs from 6 months and \$1.8m to less than 4 weeks and under \$100k per project, and revolutionize geospatial data display for the JTEP program.• Guided use of human-machine interaction in real-world training applications to productize a nascent technology in BRIGHT	10/2004 - 10/2014 Bay Area, CA
	Projects & Hobbies Explor : Architected full stack and application foundation, established the technology roadmap, assembled a remote development team and directed the release of an MVP using cloud-based services and production-quality code in less than 6 months. Chalkd : Tool to track and quantify indoor climbing, compare with friends, and inspire improvement. GearBeta : Gear warranty and longevity tracking tool.	

EDUCATION	M.S. in Aerospace Engineering , California Polytechnic State University , San Luis Obispo Lecturer of over 400 students in Intro to Aero, Spacecraft Design, Systems Theory and Advanced Spacecraft Dynamics courses. Thesis work on Kalman filtering of sensor data and control theory. B.S. in Aerospace Engineering , California Polytechnic State University , San Luis Obispo Spacecraft concentration with emphasis on control theory and radio communication systems.
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KEYWORDS	Python, Spark, SQL, ETL applications, Big data and ML tooling, PHP, C++, C#, Java, AWS, S3, API, PostgreSQL, MariaDB, DynamoDB, ES, Plotly, Javascript, D3.js, Node.js, React, Redis, Feather, Hadoop, HTML5, CSS3, JS, SOAP, REST, Angular, RaspPi, Arduino, Particle, RDS, Lambda, Docker, Kubernetes, MQTT, CoAP, WebSockets, RabbitMQ, Azure, GCP, Flask, Django, Swift, Devops, MLOps, Matlab, geospatial, networking, GPS, ML, AI, IoT, CI/CD, Linux, etc. This part is really for the computers, but thank you for reading.
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