Roshan Jobanputra // roshanj@jobanp.com // 716-406-7674 // US Citizen // LinkedIn

Software Engineering leader with ~10 years experience building cloud software applications and engineering teams in high-growth startup environments. Seeking a technical hands-on role in NYC (hybrid).

Skydio, Inc — San Mateo, CA

Skydio is the leading US Drone manufacturer and world leader in autonomous flight

Tech Stack: Python, TypeScript, PostgreSQL, Redis, GraphQL, WebRTC, Kubernetes, AWS, Protobuf, Flask, SQLAlchemy, C++, Go, Linux, Docker, Terraform, Ansible, Temporal, JavaScript, React, Relay, Redux

Director of Software Engineering, Cloud Platform — *Apr '21 - Present*

- Built and led the software team responsible for launching Skydio Cloud, a SAAS platform for managing drone fleets, sharing media, streaming low-latency video, remotely-operating flights, and planning missions. The platform supports hundreds of enterprise organizations, thousands of drones, and hundreds of thousands of flights' data.
- Served as the architect and project lead for major product features and contributed code for backend services, APIs, database schemas, event processors, async workflows, video-streaming systems, and cloud infrastructure.
- Hired 27+ software engineers into Fullstack, Backend, Frontend, DevOps, SRE, and Mobile roles (since Feb '19). Built the most gender-diverse software team at Skydio.

Cloud Platform Team Lead — *Feb '19 - Apr '21*

- Led the development of Skydio's foundational IOT System to enable video streaming, tele-operation, and real-time communication for internet-connected drones.
- Enabled Skydio's pivot to enterprise by transforming our cloud backend and infra into a multi-tenant B2B-style SAAS.
- Created the Cloud software team and owned hiring, roadmap, team leveling, and performance.
- Defined team-wide standards on code-reviews, testing, logging/observability, api structure, service deployment, etc.
- Obtained leadership buy-in for migrations of Skydio's monorepo to Github and cloud infrastructure to Kubernetes.

Software Engineer — *May '17 - Feb '19*

- Built Skydio's core backend application for device management, flight tracking, device software updates, file uploads, and feature configuration, along with an internal admin web UI.
- Led engineering of on-drone systems related to data storage, OTA software updates, config, analytics, and security.
- Developed an on-drone event-collection daemon and upload pipeline for usage data and error analysis.
- Prototyped an SDK which allowed 3rd-party developers to deploy onboard flight control code. Built a developer management web app, a cloud-deployed simulator, and a sandbox to run 3rd-party code alongside flight software.

Spire Global, Inc — San Francisco, CA

Spire sells earth-observation data via a constellation of 100+ of satellites

Tech Stack: Python, JavaScript, Node, React, MongoDB, C++, ElasticSearch, InfluxDB, AWS, DynamoDB, Docker, Terraform, Ansible

Software Engineer, Spacecraft Operations — *Jan '15 - May '17*

- Architected and led development of the "Mission Operations and Management System," a cloud-based mission orchestrator that automated real-time commanding of Spire's satellite constellation (45 satellites in May '17).
- Built a real-time web app that became the central command and control interface for the satellite operations team.
- Developed features for the "Ground Station Automation Platform" that controlled antenna pointing and handled software-defined radio configuration during satellite contacts at distributed ground stations.
- Handled on-orbit software upgrades and analyzed telemetry for debugging anomalous events.
- Named a satellite "LEMUR 2 JOBANPUTRA"; track where it is here!

Visibook, Inc — San Francisco, CA

Visibook is a scheduling application for appointment-based businesses

Tech Stack: JavaScript, Meteor, Node, MongoDB, Bootstrap, AWS

Co-Founder & Software Engineer — ***Mar '13 - Jan '15***

- Developed full-stack features for Visibook's web app and managed deployment and orchestration on AWS.
- Solved system architecture challenges and scaling issues as customer usage increased at an 8x annual growth rate.

Purdue University — West Lafayette, IN

Bachelor of Science, Aeronautical & Astronautical Engineering — ***Aug '10 - Dec '13***

Patents

- Task Management for Unmanned Aerial Vehicles [pending]
- Data Transfer Management for Unmanned Aerial Vehicles [pending]
- Applications and Skills for an Autonomous Unmanned Aerial Vehicle: link
- Systems and Methods for Command and Control of Satellite Constellations: link
- System and Method for Remote Satellite and Ground Station Constellation Management: link

Activities

Recreational ice hockey, surfing, cycling, bike repair & maintenance, climbing, food & traveling.