Ishan Jaidka

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 github | linkedin

SKILLS

Languages	JavaScript	TypeScript	Python	SQL	Java	C++	C	Kotlin	HTML/CSS
Technologies	Node.js	React.js	Docker	Linux	Git	Github	Socket.io	MySQL	MongoDB	Microservices
Cloud Experience	**AWS:** Lambda	S3	RDS	API Gateway	IoT Core	Timestream	CloudWatch	SQS	SNS	DynamoDB	Rekognition	IAM	EC2	CloudFormation **Other:** Heroku	Vercel (Node.js, Github CI/CD)
Automation	Microcontrollers	MQTT	Modbus	PLC systems	Limit switches	Sensors	Motion controllers	Low voltage control circuits	I/O systems

EXPERIENCE

JumpShot, Inc. — Nov 2022 - Present
Software Engineer — *Kent, WA*

- Designed a full-stack prototype for a next gen basketball entertainment venue, integrating React, Node.js, and MongoDB for seamless game management and UX.
- Created an HMI and custom sensor modules communicating via MQTT and Modbus to enable real-time gameplay on a PLC-operated machine.
- Trained and implemented a custom computer vision model to track players and basketballs in low-light conditions using Python, CVAT, and Roboflow.
- Engineered real-time synchronization between hardware, AI, and UI with Socket.io, MQTT, & Modbus to enable live gameplay with dynamic graphics.
- Created AI-powered games, leveraging LLMs to dynamically generate gameplay.
- Co-invented hardware/software solutions described in 4 patent applications.
- Delivered a prototype experience that secured investor funding.
- Produced specifications and vetted vendors to iterate & scale into final production.

GetSetUp — Mar 2022 - Nov 2022
Software Engineer — *Remote*

- Owned full-stack development to reduce support costs by >$1M/yr by automating agent workflows and minimizing ticket volume, collaborating with support leads:
  - Migrated to Zendesk CRM by building a custom help center, integrating the chat widget, and connecting user databases via event-driven microservices.
  - Developed services to import existing data and to merge contextual data into Zendesk tickets for class chat sessions, enabling agents to identify users.
- Implemented event-based UX tracking to measure the impact of interface optimizations on search performance and user engagement.

PROJECTS

Capstone - Automated Greenhouse

Led a team of 4 to develop a modular greenhouse automation system with real-time data collection & a mobile app interface. Awarded Best C.S. Capstone Project 2022.

- Prototyped and built custom ESP32 based modules connected to AWS IoT Core for real-time sensor data upload & low voltage control via MQTT communications.
- Deployed a scalable AWS-hosted API for user data access and controls.
- Engineered AWS RDS & Timestream DBs to efficiently manage large-scale data.
- Built a user-friendly Android app with Kotlin for intuitive control and monitoring.

Ski DIN Calculator

Calculates ski binding release tension (DIN) based on a user's information.

- **API**: Designed and built a REST API on AWS to handle calculations.
- **Android App**: Built with Android Studio and Java; >3000 downloads, 5 star rating.
- **Website**: Built using React, Javascript, & HTML/CSS.

EDUCATION

B.S. Computer Science, Cum Laude — Jan 2019 - Jun 2022
Bellevue College | GPA: 3.74 — *Bellevue, WA*

INTERESTS

Robotics | Car & motorcycle projects | 3D modeling & printing | PC building | Cooking | Skiing | Hiking with my dog