

Ishan Jaidka

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SKILLS

Programming Languages	JavaScript TypeScript Python SQL Java C++ C# Kotlin HTML/CSS
Technologies	Node.js React.js Docker Linux Git GitHub MySQL MongoDB Networking
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)
Robotics & 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 and delivered a full-stack prototype experience for a next gen basketball entertainment venue, integrating React, Node.js, and MongoDB for seamless game management & UX, securing investor funding.
- 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, significantly improving accuracy.
- Engineered real-time synchronization between hardware, AI, and UI with Socket.io, MQTT, & Modbus to enable live gameplay with dynamic graphics by achieving imperceptible latency across 10+ services/devices.
- Created AI-powered games, leveraging LLMs to dynamically generate unlimited versions of gameplay.
- Co-invented hardware/software solutions described in 4 patent applications, driving innovative experiences.
- Produced specifications & vetted 5+ vendors, selecting the optimal vendor 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 to create the following tooling:
 - 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 & user engagement, leading to improved overall user experience.

PROJECTS

Capstone - Automated Greenhouse

May 2021 - Jun 2022

Led a team of 4 to develop a modular greenhouse automation system with real-time data collection & a mobile app interface, using agile program management with biweekly sprints throughout the software development lifecycle. 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.
- Engineered AWS RDS & Timestream DBs to efficiently manage large-scale data.
- Deployed an AWS-hosted serverless API for user data access and controls.
- Built a user-friendly Android app with Kotlin for intuitive control and monitoring.

Ski DIN Calculator

Accurately calculates ski binding release tension (DIN) based on a user's information using the official Marker DIN chart.

- 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