

# ANDREW BOYLE

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## FULL STACK SOFTWARE ENGINEER

Combining experience in web application development and an interest in machine learning & data science with a creative background in music, mathematics, and marketing.

## PROFESSIONAL EXPERIENCE

### Software Engineer | Consultant, [Hood Tech Vision](#)

Apr 2023

Perform contract work with Hood Tech Vision, an aerospace engineering company focusing on integrating embedded ML and computer vision solutions into camera systems for UAVs

- Built a console app in **C#/.NET** to extract telemetry data from Flight Simulator for an in-house gimbal testing program
- Developed a packetizing function to send telemetry data via ethernet (UDP) to gimbal
- Built a high precision timer function to send and request data at precisely 33 Hz
- Built an implemented a part number manager via a **stored procedure in SQL**

### Web Developer | Digital Marketing, [Mountain View Cycles](#)

2019 – Present

Mountain View Cycles is an independent bike shop in Hood River, OR, specializing in high end bicycle sales.

- Developed a **React and Node** based marketing automation solution, **integrating OpenAI's GPT-3.5 API**, to increase marketing copy generation efficiency by 10x
- Architected, developed, and maintained a responsive e-commerce website, optimizing **UI/UX** for enhanced user experience and increased sales conversions
- Streamlined front-end development process to ensure accurate, up-to-date inventory management and seamless online-to-in-store sales integration
- Utilized **Google Analytics** for data-driven decision-making, optimizing SEO, boosting website traffic, and increasing revenue by 22% in 12 months
- Leveraged **SQL to perform complex queries on relational databases**, importing customer and product data, and extracting actionable business insights
- Mentored and supported fellow team members, fostering a culture of collaboration, knowledge-sharing, and continuous learning

## TECHNICAL SKILLS

Programming Languages:	C#, JavaScript, Python, SQL
Front-End:	React, .NET, Wordpress
Back-End:	GraphQL, Node.js, Express
Machine Learning:	Numpy, SciKit
Databases:	PostgreSQL, Relational Databases, Prisma and Sequelize (ORM's)
Version Control & Collaboration:	GitHub
API Development & Testing:	Postman, Beekeeper, Jest, React Testing, E2E & Unit Tests
Analytics & SEO:	Google Analytics, Google Tag Manager
Techniques & Skills:	System Design, Deployment, Debugging, Object Oriented Programming (OOP)

## EDUCATION

Mathematics, Portland Community College

2020

Master of Music, University of Southern California

2014