

## **Zach Bolan**

bolanzach@gmail.com (540) 454-1616 Los Angeles [www.zachbolan.com](http://www.zachbolan.com)

### **Experience**

---

#### **IVY ENERGY, San Diego, CA - Tech Lead**

**July 2024 – Present**

- Led a team of 3 engineers to deliver an API and documentation portal
  - Mentored junior engineers, increasing team productivity and improving development workflows
- Designed an internal address recommendation service using a combination of LLM and fuzzy matching, saving internal teams 60+ hours of manual operations per month
- Designed and built an event-driven solar meter reading architecture
- Prototyped a customer support AI chatbot using RAG

#### **VIDEOAMP, Santa Monica, CA - Principal Software Engineer**

**March 2023 – April 2024**

- Built and then managed a team of six engineers
  - Mentored and upleveled the team, managed ticket generation, provided LOEs, oversaw technical design reviews, and improved team Scrum rituals, all resulting in increased team velocity/output
- Led the architecture and implementation of a Reporting Engine, advising and overseeing a team of eight engineers building React UIs, Protobufs, Go and Node APIs, Postgres, Bazel infra and CI/CD
- Worked across Design, Product, and Research to develop the high-level Ad Platform architecture
  - Roadmapped and planned initiatives involving over 85 individuals
  - Delegated technical design responsibilities to members based on strengths and career goals

#### **VIDEOAMP, Santa Monica, CA - Senior Software Engineer**

**Sep 2021 – March 2023**

- Designed, led, and delivered a Node API that powered the company's Currency measurement offering
  - Improved engineering processes by introducing integration tests, strong typings, and model validations, setting a new standard for Typescript services
- Led the frontend and API architecture and delivery of a highly-visible YouTube partnership integration
  - Managed project scope, provided Level of Effort estimates, and ensured timely delivery

#### **LINKEDIN, San Francisco, CA - Software Engineer**

**Dec 2018 – Aug 2021**

- Developed and maintained EmberJS components and Java-based backend services for Talent Insights
- Led a team to integrate LinkedIn's email infrastructure, working across Hadoop jobs, Kafka, Java microservices, and a DustJS UI
- Designed a "Read-Only" mode for sharing Reports with external users
- Built the UI component framework for the first user-facing product written in Typescript and React

#### **RESEARCH INNOVATIONS, Springfield, VA - Software Engineer II**

**July 2015 – Nov 2018**

- Developed UI visualizations and backend APIs that scaled to hundreds of thousands of data points
- Migrated a legacy UI platform to modern JS tooling, enabling code-sharing and transition to React
- Contributed to early-stage startup architecture and UI component libraries

### **Projects**

---

#### **HERDBUY - Founding Member**

**Oct 2023 – Present**

- Co-founded and launched [Herdbuy.com](http://Herdbuy.com), an E-commerce marketplace from concept to general launch in June 2024
- Scaled to \$3,000+ monthly gross revenue
- Developed GTM strategy, scoped MVP launch and drove multiple product pivots
- Made all major technical decisions, including stack selection, deployment plans, and architecture

## Education

---

### CLIMATEBASE - Fellowship

Nov 2024

- Led capstone project/startup: A Circularity B2B Platform that connects partner companies to facilitate upcycling, material reuse, and regenerative design

### JAMES MADISON UNIVERSITY, Harrisonburg, VA

May 2015

B.S., School of Media Arts and Design, Computer Science Minor

---

## Skills

- **Programming Languages:** TypeScript, Go, Java, C#, Python, Rust
- **Frontend:** React, Next.JS, EmberJS, HTMX
- **Backend & APIs:** REST, gRPC, GraphQL, microservice, event-driven, streaming, ETL, ML pipelines
- **Data & Storage:** Postgres, Mongo, Kafka, Snowflake
- **Infrastructure & DevOps:** Docker, Kubernetes, Terraform, Bazel, AWS (EC2, EventBridge, Lambda, S3, SNS, SQS, etc.)