

## Senior Software Person

Software engineer for 8 years, skilled at many things. Versatile. Can lead teams. Can do science, design, and product, in addition to software development and machine learning. Can freely switch between innovator and operational mindsets (different projects = different needs). Likes mentoring.

- Flow: Sees businesses as collections of flows to make frictionless and reliable
  - Example: The flow from a customer's intent to a customer's goal being fulfilled
  - Example: The flow from new feature idea to live experiment to customer feedback
- Business Frameworks: Likes Wardley Mapping, Cynefin, and the Toyota Production System
- Design Skill: Can make things easy to understand, easy to use, and easy to access
- Software Tip: Separate code that needs frequent changes from code that needs changing rarely

## Work Experience

### Scientist for the Energetics Project (November 2020 to Present)

- Developed a new theory of motion and energy based on time-irreversible mechanics
- Created high performance physics simulations to investigate and test hypotheses
- Most research unpublished, some in peer review. See a preview: [energeticsproject.com](https://energeticsproject.com)

### Consultant for Various Employers (December 2019 to November 2020)

- Led a team of four people to create an insight dashboard for a company that manages 1000-ish car parks
- Created a product concept and business canvas for a hiring platform, convinced people to make / fund it
- Made an audience selector widget for an AdTech company (used by most the big newspapers)
- Did a couple personal projects between jobs: [ashtonsix.com/p/closeness-lines](https://ashtonsix.com/p/closeness-lines) & [ashtonsix.com/p/price-paid](https://ashtonsix.com/p/price-paid)

### Engineering Manager at Researcher (April 2019 to December 2019)

- Figured out how all the internal software and infrastructure fit together, shared the knowledge with everyone, and suggested improvements. Reduced monthly infrastructure spend from \$10,000-ish to \$5,000-ish
- Ad-hoc problem solving, coaching, planning. Like, vetting tech choices and helping decide what to build next
- Convinced everyone it was a good idea to migrate from a custom ad solution to Google Ad Manager
- Made the web app (only person available with relevant skills, product was mobile-first)

### Founder of Salamander (July 2018 to April 2019)

- Bootstrapped a deep learning platform with just \$10,000, and acquired 2,000 customers
- Automated provisioning of cheap but hard-to-use “spot servers” to make them be like expensive but easy-to-use “on-demand servers”. Many startups tried this, but I used clever tricks to do it better: at pricing, availability, and server boot-up time. See this third party comparison: [github.com/binga/cloud-gpus](https://github.com/binga/cloud-gpus), it shows Salamander was the best-value solution out of 20 competitors by a wide margin
- Created a user experience that, according to customers, was “super intuitive”, “a god-tier setup”, and “addressed a lot of pain points that other platforms couldn't”
- Sold the company to fast.ai
- No longer available, but you can see what it used to look like at [ashtonsix.com/p/salamander](https://ashtonsix.com/p/salamander)

### Senior Full-Stack Engineer at VenueScanner (2018)

### Full-Stack Engineer at Beyond Labs (2016 to 2018)

### Front-End Engineer at MyGravity (2015)

### Junior Front-End Engineer at Movidiam (2014 to 2015)

## Electives

### Soft Skills Coaching (weekly sessions from February 2020 to March 2021)

Done with a PhD alumnus from the Oxford Internet Institute and current head of product at a large tech company.

### Mindfulness Coaching (weekly sessions from July 2019 to December 2020)

Improved my emotional intelligence and ability to handle stress.