Shelby Doolittle

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EXPERIENCE

Fractal

Remote (HQ Berlin)

April 2021 - July 2022

Head of Protocol

• **Protocol**: The Fractal Protocol is a greenfield web3 project to improve user data privacy while providing access to that data to websites that did not generate that data. I defined the interface, architecture, and technical operation of the protocol. I was initially hired to be the tech lead for the project, but was promoted to being in charge of the whole project after a few months. I managed a team of 4 people.

Google

Pittsburgh, PA

Software Engineer Level 4

October 2018 - April 2021

• Shopping Product Curation Tools: Shopping Product Curation Tools builds tools for human operators to manually improve the quality of Google Shopping's product data. I built a task assignment system that processed O(10,000) assignments / day with zero latency from submission to potential assignment. I also designed and built a system to use simple high-scale operator judgements to determine if two retailer offers were for the same product.

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Midlothian, VA

 $Co ext{-}Founder$

January 2017 - September 2018

- Interactive Spaces: Interactive Spaces is a suite of software and hardware that allows escape room designers to integrate electronics into their escape rooms easily with previously impossible features included.
- Warehouse 29: A VR/Live Action/Escape Room experience. Players fight a sentient AI that has taken over a VR museum dedicated to Edgar Allan Poe. I built all of the VR gameplay and management infrastructure.

Google

Mountain View, CA

June 2015 - March 2017

Software Engineer Level 4

- OneDiff: OneDiff is a Google internal tool for diffing large batches of structured data. I worked on the frontend visualization, focusing on rendering and presenting >10GB diffs so that other engineers could understand how their data changed.
- **Process Consulting**: OneDiff was routinely lauded for responsiveness to feedback from internal stakeholders due to my efforts. I was regularly asked to consult on other teams to help improve their process.

Pivotal Labs

Mountain View, CA

Software Engineer June

June 2014 - June 2015

- Samsung Milk Video (Following Feed): When I joined the Milk Video project, the following feed always had at least 4 engineers triaging defects and performance issues. With dedicated disagreement and straightforward engineering, I was able to dramatically simplify the whole system to zero defects and able to handle new features quickly.
- Barnes & Noble NookPress: Print-on-demand service allowing people to order 1-1000 copies of a custom printed book.
- Hawq (Development Tools): Built CI infrastructure to reduce effort of manual maintenance.

AgilQuest

Richmond, VA

Software Engineer

Oct 2013 - June 2014

• Forum: Cloud-based booking software for workspaces, and meeting and conference rooms.

EXPERTISE

- Software Engineering Process: Extreme Programming, Continuous Integration, Continuous Delivery, Pair Programming, Standups, Retrospectives
- Programming: Algorithms, Data Structures, Web Development, Distributed Systems, Databases
- Languages: Rust, JavaScript, Java, Ruby, SQL, HTML, CSS, C++, C#
- Technologies: Substrate, Angular, PostgreSQL, Rails, Docker, Git, Godot, Unity3D
- Artificial Intelligence/Machine Learning: Neural Networks, Reinforcement Learning, Genetic Algorithms, Keras
- Blockchains: Cryptography, Bitcoin, Blockchains