Tyler Howard

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Portfolio and Links: https://tyler-howard.vercel.app/

Experience

Freelance Software Dev (Python, AWS, Javascript) - Los Angeles, CA   **February 2022 - Current**
- **ElasticSearch Migration (Elasticsearch, CloudFormation, VPN, CodePipeline)**
  - Coordinated the migration of a very large search index to a new ES data-model as well as backfilling assets from other indices across multiple AWS regions. Significantly reduced complexity, cost, and improved overall performance.
- **Web Scraping and Data Visualization (Python, CloudFormation, Chrome, Scrapy, React)**
  - Leveraged python scraping frameworks to populate a DynamoDB with product data.
  - Create custom views in-place on various websites connecting to newly persisted data.

Amazon Global Expansions (Software Engineer Full Time) - Austin, TX   **August 2020 - February 2022**
- **Accounting Systems for Market Expansions (Proprietary Accounting Config, AWS)**
  - Led launch of Amazon services in new markets that convert around 1 million transactions per month of Amazon purchases to accounting entries in new countries (e.g. www.amazon.pl, www.amazon.eg, and more).
- **Accounting Reconciliation Platform (CloudFormation, Javascript, Node.js, React)**
  - Developed a platform of tools to manage erroneous accounting entries. Implemented functionalities for validation, retries, lookup, and automated metrics/triage.
- **Expansion Modeling Service (Javascript, Proprietary Accounting Config, Java)**
  - Created generalized models and an accompanying intake service of frequently used tax code that cuts down dev time on 90% of new country expansions.

Amazon Advertising (SDE Intern) - New York, NY (Manhattan)   **June 2019 - September 2019**
- **(CloudFormation, Redis, ApacheDB, Java)**
  - Created AWS fargate prototyping environment to stress test a throughput of 100,000 TPS.
  - Developed automated benchmarking that helped investigate trade offs of different implementations. Results ended up in a cost savings of over 20%.

Amazon Alexa Automotive (SDE Intern) - Seattle, WA (Headquarters)   **June 2018 - September 2018**
- **GPS Simulation App (Android, Bash, Git, HTTP, JIRA, BASH)**
  - Designed/implemented an Android testing suite that simulates driving any route.
  - Allowed bugs that were previously impossible for engineers to replicate to now be reproducible in seconds from any location.
- **Facial Recognition Service (Python)**
  - Created facial recognition app to create a device checkout system. Utilized by ~50 devs coordinating hundreds of phones and devices.

Education

Temple University (*Computer Science & Business Minor)*- Philadelphia, PA   **August 2016 - May 2020**
- Recipient of President's Scholarship (Full Tuition + Stipends)
- Member of Temple's Honors College (3.7 GPA)

University of New South Wales *(Study Abroad)* - Sydney, AUS   **January 2019 - May 2019**
- Artificial Intelligence study abroad program