Tyler Howard - Software Development Engineer

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Portfolio and Links: https://tylerhoward.dev/

Experience

Freelance Web Dev And Digital Services (Part-Time) - Los Angeles, CA   **February 2022 - Current**
- **Website Portfolios and Photography/Editing Services (React.js, Next.js, Node.js, Tailwind)**
  - Develop, host, and maintain website portfolios and provide professional photography and video services for headshots and audition self-taping. Utilize Adobe Creative Suite.
- **Web Scraping and Data Visualization (Python, Postgres, Prisma, Scrapy, Matplotlib)**
  - Leverage python scraping frameworks to populate databases and front-end components with data saving hundreds of dollars in monthly proprietary API costs for customers.

Amazon Global Expansions (Software Engineer Full Time) - Austin, TX   **August 2020 - February 2022**
- **Accounting Systems for Market Expansions (Proprietary Accounting Config, AWS)**
  - Led the 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, Typescript, Node.js, React)**
  - Develop 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**
- **Architecture Scalability Research (Redis, Kafka, Java, ECS Fargate, Docker)**
  - Created AWS fargate prototyping environment to stress test a throughput of 100,000 TPS.
  - Developed automated benchmarking that helped investigate trade-offs of different backend 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, REST, JIRA, BASH)**
  - Design and develop an Android testing suite that simulates driving. Introduced to design patterns, CI/CD via code pipelines, and Scrum workflow.
  - Allowed bugs that were previously impossible for engineers to replicate to now be reproducible in seconds from any location.

- **Facial Recognition Service (Python, Sklearn, DynamoDB)**
  - Created a facial recognition app to create a device checkout system. Utilized by ~50 devs coordinating hundreds of phones and devices.

Education

Temple University (*Computer Science: 3.7 GPA*) - Philadelphia, PA   **August 2016 - May 2020**
- Recipient of President's Scholarship (Full Tuition + Stipends)
- Member of Temple's Honors College
- Study Abroad for Artificial Intelligence at the *University of New South Wales* in Sydney, Australia