

---

## Education

---

University of California, Berkeley  
BA Applied Mathematics

Berkeley, CA  
December, 2015

---

## Experience

---

Attentive

New York, NY

Software Engineer

Apr 2019 - present

Designed and built integration systems in a larger event driven architecture for a SaaS marketing tool that sent and received billions of messages per year. Designed customer service integrations with partners such as Zendesk and Gorgias and built other integrations such as Shopify, Sephora and Mailchimp using Java and Python services with Kubernetes, ECS, Lambdas, SQS and Kinesis. These services scaled from thousands to hundreds of millions of customers, orders and products to add functionality such as custom segmentation, campaign orchestration, customer service interactions and the triggering of automated messages.

Also improved cross organization python development by adding structured logging, testing and Datadog tooling as well as improved builds, testing and deployments with Bazel, Docker and shell scripts.

Artivist

New York, NY

Product Engineer

Jan 2018 - Mar 2019

Worked on close knit team on large software application with hundreds of millions of managed assets. Responsible for designing and building new features for a rapidly growing product as well as transitioning to more event driven architecture by refactoring and redesigning a monolith application. Specifically was responsible for backend services including building and maintaining internal and external REST architecture and building out a data pipeline utilizing S3 and dynamoDb. Launched 3 large asset and wealth managers in a period of 6 months and reduced painful query bottlenecks by 80%.

Noodle Pros

New York, NY

Full Stack Engineer

Mar 2017 - Nov 2017

Part of a tiny team handling a robust 2 service e-learning platform with livestream tutoring and scheduling with thousands of high paying clients. Responsible for designing and building new features for whose traffic increased 9x under my team. Redesigned the payment and distribution system to handle increased load and reducing manual fixes by 90% which reduced operational and customer service load.

Stir Works

Pasadena, CA

Software Developer Intern

Oct 2015 - Jan 2016

Software Developer

Jan 2016 - Feb 2017

Implemented and tested all functionality in a data visualization and business analytics platform as well as an internal mapping web application to aid in customer service, data insights, A/B testing and desk reliability.

---

## Projects

---

**Focusly:** Built in express.js, React and Redux, Focusly is a material designed inspired productivity timer powered by Spotify that uses work and rest intervals backed by Users' playlists.

**CSV Processor:** Small demonstrative microservice built in Django (Rest Framework) that accepts different client CSVs to be processed and then extracted into JSON to be sent to a document store or other service.

**Battle Royale:** 80's arcade style HTML5 game and game engine built in vanilla javascript and canvas api.

---

## Skills

---

**Languages:** Python, Java, Javascript, Bash, Terraform, Go, C, HTML5, CSS, SaaS

**Frameworks/Technologies:** Spring Boot, Django, Flask, Django Rest Framework, Celery, Docker (Compose), Spring Boot, Pandas, SQL, Linux, Apache, d3.js, tableau, React, Redux, AngularJS, Webpack

**AWS:** Proficient with Boto3 and Java SDK with S3, DynamoDB, Lambda, SES, SNS, Kinesis, ECS, SQS

**Databases:** Postgres, MySQL, DynamoDB, MongoDB, SQLite, Django and SQLAlchemy ORMs.

**Application Development:** Developed large web services in Python, Java and Javascript with various frameworks in an agile environment with team and individual version control in git and Jira. Dev Ops experience using Docker for local development, Kubernetes and lambda deployments in addition to writing and maintaining Terraform resources and Ansible playbooks.

**Other skills:** Competent with Illustrator/Photoshop and Sketch

---

## Personal Information

---

Personal Website: [tylerdross.com](http://tylerdross.com)

References can be provided upon request

Github Profile: <https://github.com/trizzle21>