Artur Kashperskiy

Full-Stack Software Engineer

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https://sm5art.github.io
https://github.com/sm5art

Seattle/SF Bay Area

UNIVERSITY of WASHINGTON '2021

EXPERIENCE

Lead Full Stack Engineer @ Heali.ai
June 2019 - October 2019 // Santa Monica, CA
Stack: React Native, AWS serverless, redis, DynamoDB

- Configured continuous integration and deployment for React Native app.
- Collaborated with designers and implemented UI features in react native app such as bug reporting and food product barcode scanning.
- Built APIs to support bug reporting services and food product data endpoints.
- Integrated a bug triage system (Phabricator) into the app with device analytics.
- Maintained documentation on developer operations and style.

Quantitative Finance Research Intern @ Nipun Capital
June 2017 - Sept 2017 // Foster City, CA
Stack: Anaconda Python 3.6

- Refactored codebase from python 2.7 to 3.6 and created deployment scripts that improved environment management.
- Web-scraped financial endpoints and backtested for signal with internal tools.
- NLP research on sentiment analysis of conference calls for signal.

Software Engineer Intern @ Minted
June 2016 - August 2016 // San Francisco, CA
Fullfillment Team
Stack: Flask/Python, MySQL, React/Redux, Backbone

- Mentor worked to help me understand codebase for bug fixes and production support of the fulfilment state machine.
- Wrote unit tests validating processing marketing inserts in Minted orders.
- Built an API endpoint and frontend for an analytics dashboard built for internal customer design-approval employees.

PROJECTS

demix
https://github.com/sm5art/demix
https://github.com/sm5art/demix-frontend
An online tool which allows users to utilise a machine learning cloud service to separate vocals/instrumentals from an uploaded music file. Included writing and unit testing a python web micro-service for inference and a front-end written with React/Gatsby. Launched to production for 2 months gaining ~2000 WAU before I had to shutdown due to high costs.

genetic pong
https://www.youtube.com/watch?v=mFOKdGye7vY
https://github.com/sm5art/genetic-pong
Forked a friend's pong game from his GitHub and wrote a genetic algorithm from scratch in python that used an unsupervised fitness heuristic to optimise for the best pong brain. The training sequence took roughly ~30 minutes to converge and resulted in an unbeatable AI. Even reducing the paddle size it was adaptive and was impossible to beat after convergence.

kernel
https://github.com/sm5art/kernel
I was curious about operating systems and decided to try to write my own. Using resources from operating system forums online, I was able to put together a simple kernel with graphics capabilities (printing text), a cpu clock, global descriptor table, and interrupt handling for x86 processors.

SKILLS

LANGUAGES

Python, Javascript, Java, C/C++, C#, MATLAB

TECHNOLOGIES

React, Redux, Tensorflow, Keras, MySQL, Cassandra, MariaDB, MongoDB, Redis, Memcached, Nginx, Apache, Gatsby (CMS), Spark, Unity, React Native, serverless, GraphQL

TOOLS

Git, Vagrant, Heroku, AWS, Azure, Netlify, Docker, CircleCI, Kubernetes, Trello, Excel

EDUCATION

BS Applied Physics at University of Washington
Seattle, WA '2021
GPA: 3.3
Activities and Societies: Washington Esports, Husky Snow Club
Achievements: Quarterly Dean's List (3 quarters)
Notable Coursework: Algorithms and Data Structures, Vector Calculus, Intro to Complex Analysis, Probability I, Artificial Intelligence, MATLAB for Numerical Analysis