

ARTUR KASHPERSKIY

Software Engineer

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EXPERIENCE

Software Engineer

Autodesk

Sep 2022 – Current

San Francisco, CA

- Joined Profile team working on infrastructure for personalization platform across Autodesk products (authz/authn). profile.autodesk.com.
- Worked on Observability dashboards/alarms and rolled out rate limiting features that helped with stability of APIs.
- Brought API Duration times from 1.5s (avg) when joining to about 0.25s (avg) with more throughput/features through various infrastructure/code and library optimizations.
- GraphQL, nodeJS, serverless, AWS SQS/S3/Lambda/DynamoDB, Terraform, Splunk

Software Engineer Intern

Autodesk

June 2021 – September 2021

San Rafael, CA

- Worked with Profile team to build front end for new landing page for when users first hit profile.autodesk.com (to manage a users profile).
- Worked with designers to build a few reusable React components and microfrontend that supports fast loading of the new landing page. Learned JS technologies for localization, GraphQL queries and microfrontend routing.

Software Engineer Intern

Valrav Capital

January 2021 – March 2021

NY, Remote

- Helped build up new infrastructure and helped team with moving some fundamental macroeconomic data fetching processes for research purpose to new Airflow infrastructure to help reduce costs spent on AWS.
- Built an experimental full stack fintech web application for optimizing and simulating many different portfolios with different exposure options using plotly Dash.
- Apache Airflow, Python, AWS

Software Engineer Intern

Heali.ai

July 2019 – October 2019

Santa Monica, CA

- Built APIs with Express.js and serverless to support feature for mobile app showing diet and nutrition information when scanning food product barcodes with camera.
- Built front end functionality for food product barcode scanning with Swift native OCR plugins in React Native App for nutrition app.
- Added some new infrastructure for bug reporting and added a shake to bug report feature to the app.
- React Native, serverless, nodeJS, Apache Phabricator, AWS, Swift

Software Engineer Intern

Nipun Capital

June 2017 – September 2017

Foster City, CA

LIFE PHILOSOPHY

"Break the thing so you can unbreak the thing"

SKILLS

Python JavaScript Java C C++
C# MATLAB React GraphQL React Native
Docker Kubernetes Unreal Engine
Unity MongoDB AWS EC2 API Gateway
Lambda S3 MariaDB Redis Memcached
Terraform

PROJECTS

demix

- A web tool which allowed music producers to upload an audio file and receive vocals and instrumental individually separated from the file. This project saved music producers time and effort by giving them a ml-based approach to remix songs instead of manual equalisation. Launched to production using AWS EC2 and docker for deployment for 2 months gaining 8000 WAU (had to shutdown due to high cost). Stack: python Flask server, GatsbyJS frontend, tensorflow.
- <https://github.com/sm5art/demix>
- <https://github.com/sm5art/demix-frontend>

genetic pong

- Forked a friend's pong game written in the python package pygame from his GitHub and wrote a genetic algorithm from scratch on top in python that used an unsupervised fitness heuristic to optimise for the fittest pong "brain". The training sequence took roughly 30 minutes or 30 generations to converge and resulted in an unbeatable AI player.
- YouTube Training Demo
- <https://github.com/sm5art/genetic-pong>

EDUCATION

B.S. in Applied Physics

University of Washington

Sept 2017 – August 2022

Notable coursework: Algorithms and Data Structures, Vector Calculus/Complex Analysis, Probability I, Artificial Intelligence, MATLAB for Numerical Analysis, Quantum Mechanics, Digital/Analog Electronics

- Built up data pipeline for alpha generation and web scraping sources in emerging markets (exchange sites) using python and Apache Airflow (one job required to break old text capchas using CNNs). Moved old alpha generation cronjobs to new Airflow infrastructure.
 - Small NLP research project investigating sentiment analysis of conference call transcripts (financial sentiment dictionary and word2vec).
 - python, Google Cloud, Apache Airflow, tensorflow
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Software Engineer Intern

Minted

📅 June 2016 – August 2016 📍 San Francisco, CA

- Wrote unit/integration tests improving coverage of marketing insert logic in Minted fulfillment state machine and fixed bugs.
- Built an API endpoint and front end for an analytics dashboard used as a productivity tracking tool for our stationary design auditing team.
- BackboneJS/ReactJS, Python, MySQL, Vagrant, puppeteer