

JULIAN FORTUNE

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EXPERIENCE

Disney Streaming · Software Engineer June 2022–Present

- Working on internal tools for producing and consuming events over Kinesis such that compatibility is guaranteed.
- Added a Python backend (i.e., generates Python code) to the team's code generation pipeline (written in Scala).
- Added features to the Scala, Java, & Python SDK's, as well as the team's various integration services.
- Analyzed and optimized AWS infrastructure usage resulting in annual cost reductions over \$1M.
- Created dashboards and response plans that enabled faster resolutions to production incidents.
- Wrote documentation and created an internal slack tool.

Agot AI

Team Lead Jan 2022 – June 2022

- Responsible for all videos and labels used to train models.
- Designed schemas and translators for object tracking and classification annotations.
- Advocated for strong typing, pure functions, and immutability.

Software Engineer June 2021 – Jan 2022

- Created libraries and implemented microservices that communicated via RabbitMQ (Python).
- Reverse-engineered a system consisting of a Kotlin android app and JS microservices.
- Started a Python lecture series to promote best practices.

Skyworks Solutions · Software Engineer Jan 2021 – June 2021

- Performed machine learning experiments, oversaw cloud resources (e.g., MongoDB), & wrote tests.
- Created a weighted finite-state transducer library in Python that supports on-the-fly composition with filters.

Lucid Software · Intern June 2020 – Sep 2020

- Redesigned the payroll system using Angular and Typescript to support a suite of products.
- Modified endpoints and models in backend (Scala) to support new front-end features.
- Participated in a hand-drawn shape detection hackathon project which came in 1st place.

CBT Nuggets · Software Engineer June 2018 – June 2019

- Worked part-time (during college) on the mobile apps team.
- Fixed crashes, debugged memory leaks, implemented features, and wrote tests for iOS, tvOS, and Windows apps.

SKILLS

Languages

Python, Scala (with cats), Kotlin, Swift, Java, & Typescript.

Learning Haskell & Elm.

Cloud

Object storage (S3), Instances (EC2), RabbitMQ, & Kinesis.

Tools

Docker, Terraform, & Kubernetes.

EDUCATION

Oregon State University · 2021
B.S., Computer Science (4.0 GPA)

Relevant courses: Programming Language Fundamentals (Haskell) & Deep Learning

PROJECTS

Functional-C

Statically-typed, interpreted, side-effect-free language written in Haskell.

PaperECG

An application that digitizes electrocardiograms built with OpenCV and PyQt.

PUBLICATIONS

Real-Time Speech Workload Estimation for Intelligent Human-Machine Systems
Human Factors and Ergonomics Society Annual Meeting, 2020.
Co-authored with Dr. Jamison Heard and Dr. Julie A. Adams

Real-time Speech Workload Estimation
Undergraduate Honors Thesis, May 2020