

JULIAN FORTUNE

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EDUCATION

Oregon State University — Honors Bachelor of Science, Computer Science Graduated June 2021

EXPERIENCE

Disney Streaming — Software Engineer June 2022 – Present

- Member of the Streaming Data Platform team, which provides a suite of internal tools for producing and consuming asynchronous events over Kinesis such that compatibility is guaranteed.
- Implemented a Python backend (i.e., generates Python code) for the team's code generation pipeline.
- 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 tool to reduce friction for platform users.

Agot AI — Data Team Lead January 2022 – June 2022

- Responsible for all training data including video and annotations.
- Designed schemas and translators for object tracking and classification annotations.
- Advocated for strong typing, pure functions, and immutable data structures.

Agot AI — Software Engineer June 2021 – January 2022

- Designed and implemented containerized microservices in Python communicating via RabbitMQ.
- Reverse-engineered a system consisting of Kotlin-based android app and microservices.

Skyworks Solutions — Machine Learning Co-op January 2021 – June 2021

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

Lucid Software — Software Engineering Intern June 2020 – September 2020

- Redesigned the paywall system using Angular and Typescript to support a suite of products.
- Modified endpoints and models in backend (Scala) to support new front-end features.

Oregon Health & Science University — Volunteer Software Engineer November 2019 – June 2021

- Created an application to digitize electrocardiograms using OpenCV and PyQt ([source](#)).

CBTNuggets — Software Engineering Intern June 2018 – June 2019

- Debugged, fixed crashes, implemented features, and wrote tests for iOS, tvOS, and UWP apps.

SELECT PUBLICATIONS

- J. Fortune, J. Heard, and J. Adams, "Real-Time Speech Workload Estimation for Intelligent Human-Machine Systems," 2020. Human Factors and Ergonomics Society Annual Meeting, 2020.
- J. Fortune, "Real-time Speech Workload Estimation." (Undergraduate Honors Thesis). May 2020.

PROJECTS

- **Functional-C:** Statically-typed, interpreted, side-effect-free language written in Haskell.
- **Jumble:** A JS app for unscrambling 'jumbled' words and listing all matches instantaneously.

SKILLS

- **Languages:** Python, Scala, Haskell, Kotlin, Swift, & Typescript.