# JULIAN FORTUNE

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## EXPERIENCE

### McCourt Global Technology
**Aug 2023 – Present**

Sr. Software Engineer (Project Liberty Labs) — Jan 2025 – Present
Software Engineer (Project Liberty Labs) — Jan 2024 – Jan 2025

Transferred to a back-end team at a different startup building the user authentication and SSO for a social media platform (Frequency) based on an open source protocol.

- Promoted within a year for outstanding performance and taking ownership of projects.
- Created an end-to-end test suite for a Spring application using Playwright.
- Developed support for passwords and passkeys as authentication methods.
- Built out a separate service for sending SMS messages with fraud-prevention logic.
- **Stack**: Kotlin, Spring, Redis, and Postgres

Software Engineer (Elemint) — Aug 2023 – Jan 2024

Hired to work across the stack and bring functional programming experience to a startup building a customer loyalty product for a French soccer league.

- Developed React components using Tailwind CSS, implemented endpoints, added front-end features, and wrote Postgres migrations.
- Mentored peers and championed usage of algebraic data types and generic typing.
- Transformed requirements into concrete technical specifications and tickets
- **Stack**: Typescript, React, Storybook, NextJS, and tRPC.

### Disney Streaming · Software Engineer
**June 2022 – Aug 2023**

Recruited to a Scala team focusing on tools for AWS Kinesis, including schema registry, code generation, and producer and consumer SDKs.

- Added features to SDK's, 'higher-level' services (e.g., snapshotter), and SBT plugins.
- Analyzed and optimized AWS usage, resulting in annual savings over $1M.
- Added Python support to the code generation plugin, which outputs a custom library with classes corresponding each event defined in a given schema registry.
- **Stack**: Typelevel Scala, AWS Kinesis,Terraform, and Smithy.

### Agot AI
**June 2021 – June 2022**

Training Data Team Lead

Promoted to lead the team responsible for processing videos and creating training labels.

- Planned sprints, conducted interviews, and tracked the team's progress.
- Doubled the rate of training data produced through process improvements.

Software Engineer

Hired to develop integrations and algorithms for a computer vision feedback system.

- Implemented microservices in Python communicating via RabbitMQ.
- Wrote Python libraries for standardizing consuming and producing RabbitMQ events

### Skyworks Solutions · Software Engineer (Intern)
**Jan 2021 – June 2021**

Brought on to assist the audio deep learning team by performing machine learning experiments, administering cloud resources (e.g., MongoDB and TPU instances), and writing tests.

- Created a Python library for defining weighted finite-state transducers and applying operations (e.g., composition) based on technical papers.

### Lucid Software · Software Engineer (Intern)
**June 2020 – Sep 2020**

Developed new front-end components and refactored endpoints to support front-end changes.

- **Stack**: Angular and Typescript frontend; Scala backend.

### CBT Nuggets · Software Engineer (Intern)
**June 2018 – June 2019**

Worked on the mobile apps team (part-time during college) developing for iOS and tvOS.

## ABOUT

Software engineer with 5 years of professional experience, expertise in leveraging functional techniques and type systems to prevent bugs, and a track record of success in environments ranging from early startups to massive enterprises.

## EDUCATION

**Oregon State University**

B.S., Computer Science (4.0 GPA)
2017–2021

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

## PROJECTS

**Lovelace** — A shift schedule designer developed with React and TailwindCSS.

**PaperECG** — An application that digitizes ECGs built with PyQt.

## PUBLICATIONS

Digitizing ECG image: A new method and open-source software code
Computer Methods and Programs in Biomedicine, June 2022.

Real-Time Speech Workload Estimation for Intelligent Human-Machine Systems
Human Factors and Ergonomics Society Annual Meeting, 2020.

## SKILLS

**Languages:** Python, Kotlin, Typescript, Scala (Typelevel), Swift, & Haskell.

**Cloud:** Object storage, Postgres, MongoDB, Redis, instances, & message queues.

**Tools:** Docker, Terraform, Gradle, & Make.