

JULIAN FORTUNE

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EDUCATION

Oregon State University — Honors Bachelor of Science Graduating June 2021

- Computer Science major focusing on Artificial Intelligence with a 4.0 GPA.
- **Relevant courses:** Parallel Programming, Numerical Analysis, Machine Learning, & Deep Learning
- President & graphic designer of the App Development Club and member of the AI Club.

EXPERIENCE

Lucid Software — Software Engineering Intern June 2020 – September 2020

- Added features and A/B tests in Typescript & Angular seen by millions of Lucidchart customers.
- Aided in developing an algorithm to classify hand-drawn shapes and identify squiggles.
- Redesigned the paywall system to create a clear UX experience within a suite of multiple products.

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

- Creating a computer vision system to extract signal data from EKG scans for the Tereshchenko Lab.

Oregon State University — Computer Science Teaching Assistant September 2019 – Present

- Leading labs of 30+ students, grading assignments, and assisting students during office hours.

Human-Machine Teaming Laboratory, CoRIS — Research Assistant February 2018 – Present

- Designed, developed, and validated an algorithm that estimates workload in real-time based on audio features and a neural network built using TensorFlow & TFLearn libraries, written in Python.
- Publishing research manuscripts as co-author with Drs. Julie A. Adams and Jamison Heard.

CBTNuggets — Software Engineering Intern June 2018 – June 2019

- Debugged, fixed crashes, implemented features, and wrote tests for the iOS, tvOS, and UWP apps.
- Added practice exams to iOS app, speed controls to tvOS app, and leaderboards to the UWP app.

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.
- **Tweet Sentiment Extraction (Kaggle):** Classifies the sentiment of tweets using a highly-modified version of a Naïve Bayes classifier and intelligent pre-processing. Achieved a .66 accuracy score.
- **JusText:** A menu-based command-line text editor written in Go that supports browsing and saving.

AWARDS

- **1st Place Team in Lucid Hackathon** — Lucid Software August 2020
- **College of Engineering Dean's List** — Oregon State University September 2018 – Present

SKILLS

- **LANGUAGES:** Swift, Python, Scala, C++, C, C#, Typescript, Haskell, JS, SQL, HTML, CSS, & Go.
- **TECH:** Linux, Git, iOS/macOS APIs, Angular, Vue.js, TensorFlow, OpenCV, OpenCL, CUDA, & JIRA.