

Ravi Riley

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EDUCATION

UC BERKELEY Bachelor of Science in Electrical Engineering & Computer Science (EECS) | Expected: 2023

RELEVANT COURSEWORK:

- Structure & Interpretation of Programs (Python, SQL, & Scheme), Data Structures & Algos (Java, JUnit)
- Designing Information Devices and Systems (Machine Learning, Circuit Analysis & Design, Signals)
- Linear algebra, Multi-variable Calculus

SKILLS

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| LANGUAGES | English, Chinese (Mandarin) |
| PROGRAMMING | Python, SQL, Java, Flutter (Dart), Firebase, Flask, RESTful APIs, Express, React, Node, Git, Regex |
| GENERAL | Linux, Excel/Sheets, Computer Aided Design, 3D Printing, \LaTeX , JupyterLab, Photoshop |

WORK EXPERIENCE & PROJECTS

SCRIPT | FULL STACK ENGINEER

JAN 2021 – PRESENT | [SCRIPTREV.COM](https://scriptrev.com)

- Head software engineer at Script, a Startup Labs backed content review-based social media platform
- Using Flutter and Firebase to build a cross platform, Instagram-like social media app from the ground up

PPE FOR COVID-19 | FOUNDER

APRIL 2020 – DEC 2020 | [RAVIRILEY/PPE-FOR-COVID19](https://raviriley.com/ppe-for-covid19)

- Founded a community movement that delivered 1000+ face shields and surgical mask strain relievers to healthcare workers at local hospitals, essential workers, and high school teachers
- Built a [STL-to-OpenSCAD file converter web app](#) with Javascript and designed an [OpenSCAD script](#) for STL stack generation to help others easily 3D print many parts simultaneously

INTOOLOVATION, INC. | PROTOTYPING & WEB ENGINEER

June 2018 – Jan 2021 | [INTOOLOVATION.COM](https://intoolovation.com)

- Developed company e-commerce website. Implemented Search Engine Optimization best practices and achieved #1 on multiple search engine rankings for desired keywords
- Turned conceptual idea of a re-imagined ratcheting wrench into a real product with Computer Aided Design software, then prototyped the patented invention with additive manufacturing processes

CV ENTERPRISES | Co-FOUNDER, WEB DEVELOPER, SYSADMIN

Aug 2018 – Aug 2020 | [CVENTERPRISES.ORG](https://cventerprises.org)

- Co-founded an organization of 50+ web & mobile developers that connects high school administrators and local businesses in need of software solutions to skilled CS students looking to gain real-world experience
- Delivered 6 Ruby on Rails projects in use by school administration and 11 local businesses
- Developed a fully automated Jekyll back-end for CV Enterprises' website, making webmaster role obsolete
- Designed a software development curriculum with educators that was approved as an honors course by the Board of Education & taught 40+ computer science students Java, Python, Git, C++

AGENCY JEKYLL THEME | Jekyll (Liquid, HTML, CSS, Sass, JS)

[RAVIRILEY/AGENCY-JEKYLL-THEME](https://raviriley.com/agency-jekyll-theme)

- Created a Jekyll theme with 4k+ downloads & multiple features on theme websites. Added a backend-less contact form, page generation from YAML files, Markdown support, Google Analytics, and much more
- Currently in use by [UCI's Genomics, Computation, and Sequencing Laboratory](#) and 100+ companies

STATISTICAL ARBITRAGE AUTOMATED TRADING STRATEGY | Python (Pandas, SciPy, Numpy), SQLite

- Built an object-oriented database management system on SQL and Pandas. System analyzes incoming stock time series data with a correlative analysis algorithm to generate lists of correlated stock pairs
- Implemented a statistical arbitrage trading strategy that executes through the TD Ameritrade and Robinhood APIs. Autonomous algorithm can effectively predict volatility at a 90% confidence level and whether the opportunity is a buy or sell at a 75% confidence level