

# OLIVER RIPPS

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## EDUCATION

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**Oberlin College, Oberlin, OH**

August 2019 - Present

**B.A. in Computer Science, Economics, Statistical Modeling, and Data Science expected May 2023**

- GPA: 3.87
- Relevant Coursework: Data Structures, Web Development, Computer Architecture, Systems Programming, Programming Abstractions, Algorithms, Artificial Intelligence, Machine Learning, and Data Mining, Theory of Computation, Discrete Mathematics, Statistical Modeling, Human-Computer Interface
- Honors: Omicron Delta Epsilon, International Honor Society in Economics

## EXPERIENCE

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**Uber, New York, NY**

June 2022 - August 2022

**Software Engineer Intern**

- Worked as a backend engineer on the Rider Pricing & Incentive Modeling team, restructuring Uber's microservice API framework to properly prioritize promotion campaign processing requests
- Designed, pitched, implemented, and presented an 11-week long project written in Golang and Python which cached, scheduled, and executed jobs based on a prioritization algorithm

**Twine, Oberlin, OH**

January 2021 - May 2021

**Software Engineer Intern**

- Streamlined Twine's event submission process by developing a form using React, Material UI, and Redux, integrating a call to a generative text prediction model to suggest tags for events
- Developed a backend admin event tagging and vetting web app to ensure event integrity

**Environmental Dashboard, Oberlin, OH**

September 2019 - June 2022

**Software Engineer**

- Design and implement web applications in JavaScript and Ruby to display environmental statistics through interactive maps and exhibits around campus and the greater Cleveland area
- Collaborate with an agile software development team, writing and editing scripts to manage building's electricity and water use color indicator orbs

**Coldbirds, New York, NY**

October 2019 - Present

**Co-Founder**

- Manage day-to-day operations of a hand-printed clothing company, including social media, database management, traffic analytics, product fulfillment, and advertising
- Created and maintain an E-commerce website that has attracted thousands of users from across the globe using SEO and marketing tactics, totaling over ten thousand dollars in sales

**TripAdvisor, Needham, MA**

June 2018 - August 2018

**Search Engine Marketing Intern**

- Worked on the creative and targeting teams, utilizing SQL to audit and analyze metrics for hundreds of thousands of online ads, implementing A/B tests on various Search Engines across the globe

## SELECTED PROJECTS

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**F(x)**

- Built a full-stack React Native Expo App for the Apple App Store using Firebase and Firestore to track parties on an interactive heat map, integrating the Apple Maps API, as well as a real-time discussion feature

**Oberlin Housing Placement**

- Built an Artificial Intelligence program to aid Oberlin's residential education office in housing students, optimizing total housing placement utility by 64% through reinforcement learning, constraint maximization, and heuristic search methods

## SKILLS

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**Languages:** Python, JavaScript, Java, Golang, TypeScript, R, Scheme, C, SQL, HTML, CSS, Bash Shell Scripting, Ruby, Dart

**Libraries, Frameworks & Technologies:** React, REST API, Flutter, React Native, Cadence, Redux, Cassandra, Docker, Material UI, Git, Firebase, Firestore, Twig, MongoDB, Expo, Stata, SCRUM