Sam Craig

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EXPERIENCE

National Institutes of Health (NIH) Common Fund — Bethesda, Maryland
Software Engineering Intern, Full-time — June 2021 – August 2021

- Reduced time spent on yearly employee surveys by 95% by automating all data processing through a C# (ASP.NET) and React.js website
- Designed the above survey project after receiving vague description of what to do; conducted 2+ hours per week of product interviews and planning to establish what the office needed; demoed prototype to key stakeholders and revised designs according to feedback

Upper Hand — Indianapolis, Indiana
Software Engineering Intern, Full-time — August 2020 – May 2021
Engineering Intern, Full-time — May 2019 – August 2019

- Designed and implemented the data system in PostgreSQL for an industry-first report detailing monthly revenue from recurring membership payments; system returns common data requests in an average of less than 100 ms; since mid-2021 launch, clients have spent the most time on this page; product reported system having "no bugs"
- Wrote an integration with a new credit card reader and the Handpoint API that moved $329,000 in September 2021; feature launch ensured that a customer that generates 53% ($2.5 million in September, 2021) of Upper Hand's payment volume remained with the company
- Found and fixed 3 patterns of 100+ pieces of bad data due to failed orders in the database, allowing customers to process refunds as normal
- Collaborated heavily with product through daily stand-up meetings and weekly hour-long meetings where engineers provided possible technical solutions to users' problems
- Resolved over 80 bugs in the largest payments refactor in the history of the company (over 100,000 lines changed) throughout the Ruby on Rails back end and React.js front end
- Wrote automated tests for all features and bug fixes using Rspec; successful builds were then deployed with CD to Heroku
- Reviewed and user tested at least one feature from other employees per day; these reviews spanned the breadth of the application in features and stack

Environmental Dashboard / Community Hub — Oberlin, Ohio
Technical Team Leader, Part-time — August 2020 – September 2021
Technical Team Leader, Full-time — May 2020 – August 2020
Software Engineer, Part-time — November 2018 – May 2020

- Led teams of up to 4 developers working across up to 5 separate codebases from September 2019 on, working in PHP (Symfony) and JavaScript (React.js): translated between the environmental studies department (product) and the developers (engineering); managed roadmap of software projects; reviewed all code both for efficiency / maintainability and product accuracy; communicated to the public how software worked in times of confusion
- Reduced time spent by the Oberlin community on advertising events by 90-95% through an event submission platform that automatically displays on more than 30 screens across town
- Reduced the number of hosted Docker containers by at least 33% by allowing the same PHP codebase to connect to different databases depending on the URL accessed

EDUCATION

Oberlin College / Conservatory
Bachelor of the Arts in Computer Science — Expected June 2022
Bachelor of Music in Double Bass Performance — Expected June 2022
GPA: 3.97
Relevant Coursework: – Statistics and Modeling – Seminar in Mathematical Modeling
Skills: Ruby, JavaScript, C#, PHP, Python, Java, SQL, PostgreSQL, MySQL, C++, C, HTML, CSS, Lisp, Ruby on Rails, Rspec, ASP.NET, Node.js, Symfony, Doctrine, React.js, Git, Material UI, MongoDB, Express, Sequelize, WebSockets, Docker, Heroku, Leaflet.js, GIS (ArcGIS, etc.), CI/CD, Test-driven development