MAX MAIO

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MATHEMATICS ∗ SOFTWARE ENGINEERING ∗ ALGORITHMS

EXPERIENCE

PayPal, Financial Tech Company — San Francisco, CA
Software Engineer — Jan 2021 – Present
- Currently working on the LoanBuilder platform

CommandDot, Productivity Start-up — San Francisco, CA
Full Stack Developer Intern — Aug 2020 – Sep 2020
- Designed and implemented several critical pages related to user settings on CommandDot's React web app
- Worked with Prisma and PostgreSQL to read/write sensitive user data

Genomatica, Biotechnology Company — San Diego, CA
Software/ Data Workflow Intern — Jun 2019- Sep 2019
- Worked hand-in-hand with scientists to develop the first interactive data visualization applications at Genomatica to assist with genetic strain analysis
- Built the applications using D3.js and a Python backend that programmatically called MySQL servers
- Enabled construction of 200+ node trees in real time, saving the team 2+ hours of tedious work

Remote Software Intern — Sep 2019 – Jan 2020
- Built data pipelines that process CRISPR DNA sequences using Apache Airflow that transformed a laborious 2-hour job into 15 minutes of automation
- Developed a custom metabolic data visualization based on Escher (https://escher.github.io/#/), allowing scientists to quickly identify potential process improvements to optimize product yield
- Made Dean's list while managing 15+ hours of work a week as a full-time student

Minni, Spaced Repetition Application — Madison, WI
Co-Founder, Full Stack Developer — Dec 2018 – May 2019
- Created a mobile application that utilizes a spaced repetition algorithm based on psychology research to optimize learning and memorization
- Lead a programming team of four that focused on the backend development & creating/managing AWS databases
- Worked with Amazon's APIs in order to store and encrypt user data
- Leveraged team collaboration tools to accelerate workstreams and keep project on track (e.g. GitHub; Slack)

EDUCATION

University of Wisconsin-Madison, Bachelor of Science — Madison, WI
Majors: Computer Science & Mathematics – Awards: MadHacks 2017 Runner up — Graduated May 2020

CAMPUS INVOLVEMENT

Computer Science Learning Center — Madison, WI
Tutor — Jan 2020 – May 2020
- Tutored undergraduate students in "Intro. to Algorithms", "Programming III (Java development)", and "Machine Organization and Programming (C Programming)"
- Helped students understand various algorithms i.e. divide and conquer, greedy, and dynamic programming

UW-Makerspace — Madison, WI
Member & Contributor — Fall 2018 – May 2020
- Built several gadgets and basic robots powered by Raspberry Pi computers

SIDE PROJECTS

MIPS-COMPILER: https://github.com/maxmaio/mips-compiler
- Built a compiler that compiles a subset of the C language to MIPS assembly code
- Written in Java (5000+ lines of code). Uses an Abstract Syntax Tree to parse program

FANTASY FOOTBALL STAT API: https://github.com/maxmaio/Fantasy-football-stat-api
- Python program that retrieves league specific Yahoo fantasy football data and outputs into csv

SKILLS

- Python, JavaScript, C++/C, HTML/CSS, SQL, Java, R
- Git, React/React Native, Linux, Node.js
- Skilled in Critical Thinking, Logic, Math. Able to learn new technical skills quickly