

Qualifications Summary

Innovative Computational Biologist/Data Engineer Intern with demonstrated expertise in driving efficiency, empowering transformation, and overseeing data optimization, automation, and agile methodologies.

Software / Data Engineering

- ◆ Ability to develop and maintain software applications and data pipelines to support various business needs.
- ◆ Capable of building data architectures for efficient storage, retrieval, and processing of large datasets.

Web Applications Programming

- ◆ Skilled in designing responsive and interactive web applications that meet user needs and business objectives.
- ◆ Well-versed in using artificial personal assistants; AWS, SQL, RESTful APIs, JavaScript, HTML/CSS, and Python.

Project Management

- ◆ Adept at spearheading projects from conception to completion, ensuring delivery within time and budget.
- ◆ Remarkable efficiency in monitoring project progress, tracking milestones, and managing project risks.

Key Strengths

- ◆ Instrumental in driving enhancements in current and established computing systems.
- ◆ Expert in leveraging cloud computing and programming languages to craft functional and dynamic solutions.

Career Experience

Brightseed, South San Francisco, CA

2022 – 2023

Computational Biologist/Data Engineer Intern

Decreased data access time for Brightseed's proprietary information from span of weeks to just hours by directing integration of Neo4j graph database and internal API solutions as well as conducting comprehensive data analysis in collaboration with senior data engineer. Revamped setup efficiency for Brightseed's core AI algorithms, minimizing configuration time from days to mere minutes by constructing containerized environments through Docker. Implemented Agile methodology to drive project adaptability. Maintained thorough code documentation and employed Git for efficient version control. Conducted rigorous unit testing and managed team repositories via GitHub.

- Achieved 10x enhancement in efficiency for generating core AI pipeline data packages at Brightseed by implementing automation techniques in cooperation with senior data engineer and employing diverse range of programming languages and technologies, encompassing Neo4j, SQL, AWS cloud solutions (S3, EC2, ECS, ALB, VNC, Lambda), REST, JSON, Microservice design principles, Docker, Python, and Java.
- Streamlined computation duration for 2.5B AI predictions and minimized timeline from three weeks to three days through meticulous program profiling, time and resource optimization, and strategic implementation of parallel processing across entire Brightseed server. Levering languages and technologies SQL, NoSQL, MongoDB, Docker, Excel, AWS data management, Python, and Java.
- Increased core AI algorithm efficiency at Brightseed by 30% via autonomous creation and deployment of front-end and back-end components for internal website by employing SQL, AWS cloud solutions (S3, EC2, ECS, ALB, NLB, VNC, EFS, Lambda), Microservice design principles, Angular, Docker, REST, JSON, Typescript, Python, Java, PHP, JavaScript, and HTML/CSS.
- Ensured smooth workflow by delivering presentations to entire company on three projects, outlining their implications, use cases, and methodologies under guidance of director of computation.

The Coder School, Westerville, OH

2019 – 2021

Code Coach

Cultivated well-rounded and proficient programmers by fostering development of students' programming expertise and continuous improvement in areas, including runtime and space optimization in adherence to coding conventions. Supported students in achieving computer science objectives, spanning areas, such as website design, language acquisition, machine learning, and beyond by delivering exceptional guidance and training.

- Developed standardized curriculum tailored for summer camps focusing on Python programming and similar topics, with a particular emphasis on school-specific requirements, including selection of suitable teaching materials and course content.

Education

Master's Student in Computer Science | Ohio University

Bachelor of Science in Computer Science | Minor in Philosophy, Miami University, Oxford, OH

Relevant Coursework: Algorithms II, Intro Artificial Intelligence, Web Application Programming, Database Systems

Academic Affiliations: Curriculum Executive, Miami University Python | Miami University Programming Club