Samuel Avina

Location: Westerville, Ohio
Email: sleeavina@gmail.com | Mobile: (419) 460-1660

[Website](#) | [LinkedIn](#) | [GitHub](#)

SOFTWARE ENGINEER

I am a software engineer with over **3.5 years** of professional experience and particular interest in the areas of **functional programming** languages, **machine learning**, and **real-time systems**.

TECHNICAL SKILLS

Languages	:	C, Java, Python, Standard ML, Elm, Rust, JavaScript, React
Databases	:	Oracle SQL, Microsoft SQL Server, PostgreSQL, MySQL, Liquibase
Dev Tools	:	IntelliJ, Visual Studio, Visual Studio Code, Git, SVN, Linux CLI, Vim
Miscellaneous	:	Ableton Live, Blender

EXPERIENCE

Software Engineer   September 2021 – Present
JPMorgan Chase   *Columbus, OH*

- Maintained and migrated a database from Sybase to Microsoft SQL Server for a web application and several batch jobs
- Developed a Kafka consumer app and restructured an existing app for a microservice-oriented refactor of a critical Business Banking process impacting over four million customers
- Mentored new team members on current development projects
- Created unit tests and component tests using JUnit and Cucumber for multiple Business Banking applications
- Designed a new Business Banking process with Spring Batch to avoid incorrectly assessing monthly service fee charges

Software Engineer   July 2020 – December 2020
Vega Capital   *Chicago. IL*

- Cofounded a student-run, quantitative trading firm
- Performed data analysis and backtesting to assess the validity of preliminary trading strategies
- Developed and tested strategies for trading assets

Administrative Project Coordinator   April 2020 – June 2020
Micro-Metcalf Internship   *Remote*

- Redesigned an existing website to modernize it using HTML and CSS
- Worked remotely on a self-paced project

Data Integrity Specialist Intern   June 2018 – August 2018
GiveNext   *Cleveland, OH*

- Investigated charitable trends and statistics
- Compiled relevant research into comprehensible reports for internal use
- Developed policies and procedures concerning data maintenance and integrity

EDUCATION

The University of Chicago   September 2017 – June 2021
Bachelor of Science in Computer Science (Specialization in Programming Languages)

- **Courses:** Operating Systems, Introduction to Database Systems, Theory of Algorithms, Mathematical Foundations of Machine Learning, Compilers for Computer Languages, Functional Programming, Type Theory

Bachelor of Science in Mathematics

- **Courses:** Calculus, Analysis in R^n, Basic Complex Variables, Basic Algebra, Abstract Linear Algebra, Introduction to Formal Languages

CERTIFICATIONS

- AWS Certified Cloud Practitioner