John L. Schmitt

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Software Engineer / Data Engineer

Enthusiastic and adaptable learner with a strong passion for exploring new technologies. Thrives in collaborative, high-performing team environments and is eager to contribute existing skills, grow professionally, and tackle challenging problems.

PROFESSIONAL EXPERIENCE

Caurus, *Software Engineering Intern***,** Remote   *May 2024 – August 2024*
- Collaborated with a small engineering team at a revenue-generating data infrastructure startup
- Contributed to product ideation by curating potential clients and engaging in ideation talks
- Acquired in-depth knowledge of modern data stack architecture and identified technologies that integrate efficiently
- Developed a Rust-based replicator program that enabled engineers to bootstrap from a heterogeneous machine cluster to an experimental service cell with a single command

UBS, *Corporate Cash Management Group Intern*, Chicago, IL   *May 2023 – August 2023*
- Performed quantitative research on current market trends and client holdings for the managing director - $45 billion business
- Acquired VBA skills to innovate macros which automated time-consuming daily tasks
- Developed an understanding of the importance of fostering strong and lasting client relationships through communication
- Collaborated with team members to present weekly team presentations and an end-of-summer capstone project

Butler National Golf Course, *Honor Caddie,* Oakbrook, IL   *May 2016 – August 2023*
- Achieved highest level of caddie after only two seasons at the club
- Trained younger caddies to bolster the caddie program of the club by passing on course knowledge and best practices

SOFTWARE DEVELOPMENT PROJECTS

Financial Data ETL Pipeline: Created an ETL pipeline that extracts stock data from S&P 100 companies from public sources, loads them into SQLite for storage and DuckDB for high-performance analytics and querying. Programmed in Python and utilizes SQL

Sports Betting Arbitrage Finder (Arbet): Full-stack developed a sports betting arbitrage finder that utilizes an open-source API and JSON. Programmed in Node.js and Rust

Dynamic Stride Scheduler: Developed a stride scheduler in xv6 that incorporated dynamic ticket allocation, allowing the scheduler to deterministically schedule processes based on changing workloads, priorities, or resource usage. Programmed in C

Personal Portfolio Website: Built a personal website from scratch using React.js (jjschmitt.com) to showcase my projects, experience, and interests in a clean, responsive design.

Languages and Frameworks: Python, SQL, Rust, JavaScript, Java, React.js, C
GitHub: jjschmitt1

EDUCATION & CERTIFICATES

University of Wisconsin-Madison   **Madison, WI**
College of Letters and Sciences   *December 2024*
Major: Computer Science | Minors: Math, German
GPA: 3.77

In-Progress Certificates: AWS Cloud Practitioner (85% complete) | IBM Data Engineering (60% complete)

LEADERSHIP & INVOLVEMENT

Sales & Trading and Asset Management Club   **Madison, WI**
Associate Member   *February 2023 – December 2024*
- 1 of 6 sophomores chosen in the Spring 2023 application cycle which had a 17% acceptance rate and rigorous interview process
- Networked with students recruiting for Sales & Trading or Asset Management who secured full-time offers from prestigious firms