Matthew Nomura

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Education

University of Michigan — Ann Arbor, MI
B.S. in Honors Mathematics, B.S. in Computer Science; GPA: 3.85 — *Aug. 2019 – April 2023*
SAT: 1570/1600, ACT: 36/36

Experience

Capital One — Chicago, IL
Associate Software Engineer — *August 2023 – Present*

- Fullstack engineer integrating the digital concierge service Velocity Black with Capital One.
- Implemented and tested backend endpoints/services facilitating integration of single-sign-on in Velocity Black with Capital One. Additionally, created performance tracking and alerting in Splunk for these backend sevices.
- Worked with product team members to fine tune and create risk assessment checks for the inventory displayed to users of Velocity Black, using AMQP.
- Modified UI features in the Velocity Black mobile app on the way to integrating it with Capital One.

G-Research — London, England, UK
Work Experience in Data Intelligence (Data Science / Machine Learning) — *May 2023*

- Implemented a model to shorten textual data while retaining semantics for downstream NLP tasks, using SciPy and NumPy.
- Participated in financial markets courses, including an introduction to the mechanics and pricing of futures and options.

Lucid Software — Raleigh, NC
Software Engineer Intern — *May 2022 – August 2022*

- Member of a team improving Lucidspark, a virtual whiteboard app.
- Optimized a feature that displays and syncs Jira issues on a Lucidspark board.
- Built a UI tool for adding custom Jira fields to imported Jira cards in Lucidspark.
- Won a first place prize in Lucid's annual hackathon for building a feature that allows users to take a photo of sticky notes on a physical whiteboard and upload it to a Lucidspark board.

Lab of Geometry at Michigan, LoG(M)

- Researched techniques in variational analysis to compute optimal paths for mobile robots.
- Worked with two other undergrads, a grad advisor, and a math faculty member.

Mathematics Coursework

- **Honors Math Sequence** MATH 295-296-395-396: Math 295 and 296 covered introductory real analysis, algebra, point-set topology, and linear algebra. Math 395 was analysis in $\mathbb{R}^n$ and Math 396 was analysis on manifolds, both of which covered an introduction to measure theory.
- **Honors Algebra Sequence** MATH 493-494
- **Number Theory** MATH 575
- **Category Theory** EECS 598
- **Probability Theory** MATH 525
- **Stochastic Processes** MATH 526

Computer Science Coursework

- **Operating Systems (Advanced Projects)** EECS 482
- **Advanced Algorithms** EECS 477
- **Computer Vision** EECS 442
- **Machine Learning** EECS 445

Technical Skills

Languages: C++, Python, TypeScript, MySQL
Libraries/Platforms: React Native, RxJS, Redux Observable
Certifications: AWS Solutions Architect - Associate