Nathan Lou

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EDUCATION

University of California, Los Angeles   **Expected Graduation: June 2024**

Bachelors of Science in Mathematics - Computer Science (GPA: 3.8 / 4.0)   *August 2021 - Present*

City University of New York, Baruch College   **New York, NY**

Bachelors of Science in Financial Mathematics (GPA: 3.8 / 4.0)   *August 2019 - May 2021*

Relevant Coursework: C++, Analysis, Linear Algebra, Probability, Python, R, Algorithms.

PROFESSIONAL EXPERIENCE

MetLife, Inc.   **New York, NY**

Actuarial Intern   *May 2022 - August 2022*

- Projected commissions by processing data from a large database and forecasted commissions using Excel. These projections helped determine the commission rates for thousands of offices that sell coverages.
- Matched inconsistent data entries across various offices by using a dictionary-like data structure with Excel.
- Cleaned and validated data flowing into the team's mid-market segment persistency model.

CryptoSwap   **Los Angeles, CA**

Web Developer   *February 2022 - Present*

- Taught myself TypeScript, React, Next.js, routers, AWS, Docker, IPFS, ethers.js, and solidity for 5 months. What started as a research paper on using modular architecture to make decentralized exchanges more efficient turned into a project that I am driving to completion.
- Developed and designed the front end, used a web3 stack (Next.js, AWS, web3-react) to integrate the website with the blockchain. Facilitated smooth CI/CD by seamlessly integrating Github Actions, IPFS, AWS S3, CloudFront, and Lambda functions.
- Spearheaded a marketing campaign that grew the social media presence to over 10000 and led a student development team.

InsideSherpa, Inc.   **San Francisco, CA**

Global Operations Intern   *June 2021- September 2021*

- Recommended slogans and statistics that are still being advertised by the company today.
- Responsible for over 500 new sign-ups by writing an automated email marketing script with Python and Excel.

S.A.C.C at Baruch College   **New York, NY**

Math Tutor   *May 2021- August 2021*

- Tutored dozens of college students and helped them through their probability, algorithms, and calculus classes.
- Communicated high-level math concepts in a simple manner to students who may not have a math background.

ADDITIONAL

Technical Skills: Proficient in TypeScript, Python, SQL, C++, AWS, Docker, Ubuntu Linux, Github Actions, Git, CI/CD, boto3, Solidity, Hardhat, Ethers, IPFS, Webpack, JavaScript, Next.js, React, Redux, HTML, CSS, SCSS, Tailwind, R, Microsoft Excel, SEOs.

Extra Activities: AWS Certified Cloud Practitioner, Polygon BUidl It Global Virtual Hackathon 2022, Board Member in Blockchain at UCLA, Linear Algebra Research Seminar, Board Member in Baruch Actuarial Science Society, Exam P (Probability), Exam FM (Theory of Interest).