

SHLOMO DAHAN

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EDUCATION

University of Pennsylvania

Master of Computer & Information Technology

Philadelphia, PA

Jan. 2023 – Dec. 2024

University of Miami

Bachelor of Business Administration in Finance, Minor in Accounting

Coral Gables, FL

Aug. 2015 – Dec. 2018

EXPERIENCE

Google Summer of Code

Jenkins

Remote

May 2024 – Sep 2024

- Implemented a comprehensive user interface for Jenkins Infra Statistics, enhancing user experience and data accessibility.
- Developed and integrated UI components using React, TypeScript, and Material-UI, ensuring a seamless and responsive design.
- Collaborated with the Jenkins community and mentors to align the project with the organization's goals and standards.
- Utilized Git for version control and GitHub for project management and issue tracking.
- Project Details:** GSoc 2024 Jenkins Infra Statistics | **GitHub Repository:** jenkins-infra/stats.jenkins.io

J.P. Morgan Chase & Co

Private Banking Analyst

Miami, FL

June 2018 – July 2022

- Managed UHNW portfolios, contributing to a \$500MM growth in AUM through advanced analytics and Python automation, reducing report generation time by 30%.

PROJECTS

Algorithm Visualizers: Sorting & Pathfinding | React, TypeScript, Next.js, TailwindCSS Feb 2024 – Mar 2024

- Developed web applications to visualize core computer science algorithms: sorting algorithms (Merge Sort, Quick Sort, Bubble Sort) and pathfinding algorithms (A*, Dijkstra's, Greedy BFS).
- Utilized interactive animations and efficiency comparisons to enhance understanding of sorting algorithms.
- Created a grid-based UI for pathfinding algorithms, allowing users to dynamically alter terrain and observe algorithmic path selection in real time.
- Employed React and Next.js for scalable front-end development with Tailwind CSS for responsive design, enhancing user engagement and educational value.

Advanced Network Programming | C++, NS3

Sep 2023 – Dec 2023

- Engineered link state and distance vector routing protocols optimizing network throughput and reliability in distributed systems with Dijkstra's and Bellman-Ford algorithms.
- Developed a peer-to-peer search engine using a custom Chord Distributed Hash Table, enhancing data indexing and retrieval.
- Implemented dynamic node management for efficient data reshuffling and reduced search time complexity utilizing Chord finger tables.

VeriCreds | React, Next.js, Redux, Tailwind CSS, Axios, Flask, PyMongo, Postman

Apr 2023 – Aug 2023

- Contributed to the full-stack development of a Web3 document-sharing solution, showcasing decentralized file management and blockchain integration.
- Engineered front-end interface and authentication features, integrating backend services for seamless document management and secure access control.
- Leveraged IPFS for document upload and sharing, ensuring secure and efficient data handling with blockchain technology.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS

Frameworks/Platforms: React, Next.js, Vite, MUI, Flask, JUnit, Tailwind CSS, Redux, NS3, PyTorch

Developer Tools: Git, Docker, VS Code, PyCharm, IntelliJ, Eclipse, Google Colab, Postman

Libraries: Pandas, NumPy, Matplotlib, Scikit-image, Axios

Spoken Languages: Spanish (Fluent), French (Working Proficiency)