Max Franklin

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EDUCATION

Yeshiva University, Yeshiva College - New York, NY   Expected Graduation: May 2026
Bachelor of Science in Computer Science, Distributed Systems Track   Overall GPA: 3.65
Awards: Dean's List 2022-2023 & 2023-2024

SKILLS

Technical: Java, Maven, JUnit, C, Python, Bash
Web Dev: Next.js, React, JavaScript, TypeScript, HTML/CSS, WordPress, PHP
General: Docker, Git, Github, Linux, Kafka, MongoDB, PostgreSQL, Powershell, Wireshark

PROJECTS

HFT System Design Research Project   *January 2025 - Present*
- Architect a high-frequency algorithmic trading system to function at an internet scale
- Implement Java skeleton classes for all system components, including a pub/sub messaging service with UDP multicast based on Kafka and Aeron, and various gateway nodes for handling incoming and outgoing traffic

AWS Lambda Mock Distributed System   *August 2024 - December 2024*
- Developed a multi-node distributed system in Java that accepts client code via an HTTP API and executes it in a processing cluster, using ZooKeeper-style leader election and gossip-style heartbeat monitoring
- Utilized TCP for safe data transmission and UDP for internode communication to maintain performance
- Collaborated with a teammate to create a Bash deployment script that interfaced with Maven to perform JUnit testing, deploy a cluster, and stress test the cluster by sending a large volume of mock requests

Portfolio Website   *May 2024 - July 2024*
- Built a portfolio website in TypeScript with Next.js and deployed it to the cloud via Cloudflare
- Created React components that take advantage of both server-side rendering and client-side functionality

StockTerminal   *May 2023*
- Developed a Java-based terminal application to retrieve and display real-time stock market data on a two-week deadline in collaboration with a teammate
- Connected to an external API for data retrieval and designed Java objects to store stock market data efficiently

WORK EXPERIENCE

Student IT Assistant, Yeshiva University - New York, NY   *May 2024 - Present*
- Collaborate with team members to regularly set up and maintain IT infrastructure, including networking components and on-premises servers
- Provide on-site technical support to staff and students, utilizing ServiceNow to track tickets

Web Developer, Freelance - Oak Park, CA   *July 2019 - May 2024*
- Utilized WordPress and HTML/CSS to design and deploy modernized websites for clients
- Collaborated with clients to determine project goals, explore hosting options, and iterate over the design process

IT Consultant, Freelance - Oak Park, CA   *July 2019 - May 2024*
- Designed custom-tailored IT solutions for clients based on specified parameters and situational needs

EXTRACURRICULARS

Head Website Manager, YU Observer Newspaper   *August 2023 - Present*
- Communicate with Observer staff to maintain, fix, and update the website
- Partnered with the developer team to further enhance the website based on senior staff members' feedback
- Design and develop a custom WordPress theme in PHP for an enhanced user experience

Treasurer, Photography Club   *September 2023 - May 2024*
- Managed club funds and coordinated spending with club event planners

Board Member, Amendments Committee   *November 2022 - June 2023*
- Coordinated with board members to design efficient systems to incorporate into the student government