

NATHAN MANDELL

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EDUCATION

Bachelor of Arts, Computer Science, Columbia University (GPA 3.7) Expected May 2026
Coursework: Data Structures and Algorithms, Advanced Programming, Intro to Databases,
Cloud Computing, Operating Systems, Distributed Systems

Associate of Arts, Liberal Arts, Borough of Manhattan Community College (GPA 3.96) August 2023

EXPERIENCE

Software Engineer Intern July 2025 - Present
Techneosis, LLC *New York, NY*

- Design and implement new mobile app features during a major product pivot.
 - Refactor TypeScript React Native codebase, reducing redundant code by 25% and improving maintainability.
 - Consolidate legacy Spring Boot and NestJS microservices into a single Django service to simplify architecture and maintenance.

Research Assistant, Hyperlight Micro Virtual Machine Manager June 2025 - Present
Professor Kostis Kaffes, Columbia University *New York, NY*

- Ported CPU benchmark program from Go to Rust for use in micro VM environment.
 - Wrote stress tests to benchmark performance of concurrent micro VMs.

PROJECTS

Linux File System (Operating Systems course project) Worked with group of three to code fully functioning Linux file system from the ground up in C, supporting file creation, deletion, and metadata storage.

Anagram Finder (Data Structures/Algorithms course project) Built a Java CLI that indexes a user-provided dictionary by sorted-character signatures and prints anagrams in lexicographic order. Implemented interchangeable backends—BST, AVL tree, and hash map—for efficient lookups.

Meeting Match (Cloud Computing course project) Led development of a meeting scheduler with three Django REST microservices and a composite service secured by JWT authentication. Built and integrated a Next.js frontend for seamless scheduling.

FoodBridge (DevFest 2025) Built React frontend with OpenStreetMap API integration to geolocate and connect donors to local food pantries.

QuickTask Created a cross-platform task management app for web, iOS, and Android using React Native, focusing on a clean UI and efficient task organization.

SKILLS

Languages	Python, Java, C, C++, Go, Rust, HTML, CSS, JavaScript/TypeScript
Tools	MySQL, Git, GitHub, Docker, Expo, AWS EC2, Postman, Cursor, OpenAI Codex
Frameworks & Libraries	Django, FastAPI, React, React Native, ASP.NET

LEADERSHIP & EXTRACURRICULARS

- Participant of DevFest 2025 Hackathon
 - President of Columbia University Orthodox Christian Fellowship
 - Former officer for Phi Theta Kappa Honor Society, Borough of Manhattan Community College chapter