



EDUCATION

University of Maryland, College Park

B.S. in Computer Science | GPA: 3.74/4.0

Dean's List 2020-2023 | QUEST Business Honors Program

Relevant Coursework: *Data Structures & Algorithms, Database Design, OOP, Comp. Architecture, Networking, Mobile Dev*

College Park, MD

Aug 2020- Dec 2023

WORK EXPERIENCE

Yext

Washington D.C

May - Aug 2023

Software Engineer Intern

- Optimized **Java** backend servers with warm-up, reducing cold start times and boosting **gRPC** call latencies by 200%.
- Developed and optimized a **Kafka** pipeline for real-time monitoring and indexing of user-configured field updates between the core platform and backend search services, enhancing data flow efficiency.
- Led migration of search backend services from legacy Data Science Gateway Service to next-gen architecture, improving search relevancy by 15% through close collaboration with data science team.

Spring Health

New York, NY

May - Aug 2022

Software Engineer Intern

- Designed and implemented an in-house video chat feature on Spring Health's platform, fostering direct communication between therapists and patients, eliminating the need for third-party app redirection using **React** and **Tailwind CSS**.
- Built **Ruby on Rails** and **GraphQL** API for collecting/storing patient feedback and metadata from video chat sessions.

Advisar AI

New York, NY

May - Aug 2021

Software Engineer Intern

- Developed a **React** data engineering UI dashboard to efficiently display up to 1GB of spreadsheet data to support data cleaning and modification for data model training.
- Built an email verification service to identify and eliminate illegitimate bot accounts using **Django** and **SQLAlchemy**
- Directed sprint meetings with engineers and product managers to discuss acceptance criteria for new features, critical production issues, and bottlenecks in the CI/CD pipeline.

SX Industries

Remote

Data Insights Consultant

Feb - May 2023

- Facilitated client discussions, defining project scope, checkpoints, and deliverables to ensure comprehensive alignment.
- Analyzed Historical Sales Data using **Python** and forecasting models (**Holt-Winters**, **SARIMA**) for accurate prediction.
- Developed Safety Stock Model in Python for holding optimal metal parts quantity, improving Sales Forecasting accuracy.

PROJECTS

Final Call - WebSocket Online Game

- Built Online website version of the "For Sale" board game.
- Used **Next.js**, **Websockets**, **Node.js**, **Typescript**
- Players buy/sell properties to end up with the most money
- [github.com/final-call](https://github.com/junghochoi/final-call) | [Final Call](#)

AI for Minesweeper and Floodfill

- Built Online website version Minesweeper and Floodfill
- Implemented A* and BFS Search algorithms to calculate optimal moves in the Floodfill/Minesweeper respectively
- [github.com/minesweeper](https://github.com/junghochoi/minesweeper) | [github.com/floodfill](https://github.com/junghochoi/floodfill)
- [Minesweeper](#) | [Floodfill](#)

Artificial Intelligence Entity Generator - Yext Hackathon

- Developed a user survey for dynamic entity generation in Yext Core Platform, using ChatGPT API for intelligent entity creation based on user input.

- [github.com/generative-ai-demo](https://github.com/junghochoi/generative-ai-demo)

Beverage Price Elasticity- Union Kitchen

- Created Python demand models to discover insights in customer preferences and price elasticity in different drinks
- Pinpointed beverage type and store location as significant factors
- [github.com/union-kitchen](https://github.com/junghochoi/union-kitchen) | [umd-quest/union-kitchen-poster](https://umd-quest.github.io/union-kitchen-poster)

Imposter.io - WebSocket Online Game | [github.com/imposter.io](https://github.com/junghochoi/imposter.io)

- Developed online game using Websockets; players assigned the "Imposter" role must blend in while completing tasks.

SKILLS

Languages: Java | Python | C# | Javascript | Typescript | Ruby | SQL | OCAML | HTML/CSS

Frontend: Next.js 14 | React.js | Redux | GraphQL | Websockets | Tailwind CSS | Chakra UI | shadcn-ui | Prisma | React Query

Backend: Node.js | Ruby on Rails | gRPC | RabbitMQ | Dagger2 | Kafka | Django | PostgreSQL | Redis | Elasticsearch | Planetscale

Development Tools: AWS/GCP | Docker | Git/Github/Gerrit | Teamcity | Grafana | Lightstep