Gautom Das

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EDUCATION

University of Maryland, College Park

Aug 2020 - May 2024

College Park, MD

Bachelor of Science in Computer Science and Math | GPA: 3.7

- Awards & Honors: Honor's Student part of the Advanced Cybersecurity Experience and awarded the full Banneker Key Scholarship —a four year merit-based scholarship awarded to 0.02% of undergraduate students at UMD.
- Coursework: Algorithms and Data Structures, Object Oriented Programming I and II, Linear Algebra, Multivariable Calculus, Differential Equations, Statistics I and II, Probability Theory, Functional Programming, Real Analysis

EXPERIENCE

Yext June 2022 – August 2022

Software Engineering Intern

Washington, D.C.

- Worked on Yext's Search back end development team to provide a customize AI search experience for companies.
- Helped migrate the old query suggest architecture, in Java, to a more horizontally scalable system with new features.
- Learned about distributed systems, message queueing, and databases by creating MySQL tables, making RabbitMQ exchanges to listen for updates, and adding new gRPC endpoints for more API functionality.
- Experienced the dev lifecycle using build tools (Bazel), version control with Git/Gerrit, and a scrum workflow (Jira).

Capital One

Software Engineering Intern

June 2021 - October 2021 McLean, VA

- Worked on the second most starred —at 873 stars—public, open source repository: the Data Profiler, a Python library that allows for various file types to be opened and analyzed in Python as a DataFrame.
- Grew functionality to include input String and Byte streams at scale to the python library. Additionally, improved the handling of buffers in the back end.

Immuta (Series D Startup)

June 2021 - August 2021

College Park, MD

- Software Engineering Intern
 - Hands on experience with full-stack development at a startup: a AngularJS, NodeJS, and PostgreSQL tech stack.
 - Shipped multiple feature upgrades and bug fixes in the v2021.3 release.

Assured Global Consulting LLC

January 2021 – December 2022

Director of Marketing

Washington, D.C.

- Founded an international education consulting company providing a-la-carte admissions services that partnered with three international organizations and individuals in seven countries.
- Managed the website that serves over 100 visitors a day built with NextJS using Stripe for payments.

PROJECTS

pyTorrent | A V1 torrent parser and client in OCaml and Python

- Wrote an OCaml executable to decode and encode, BEncoded "torrent" files with additional functionality to provide a Shall info_hash based on the original BitTorrent Protocol Specification.
- Implemented the peer protocol in Python and created an interface with the OCaml executable to find and manage peers
- Used coroutines to asynchronously(asyncio) handle the peer messages from the TCP protocol to download and build a file from multiple sources.

Algoroller | A full-stack project demonstrating verifiable random numbers through roulette on the Algorand blockchain.

- Built a casino game using PyTeal to run on the Algorand blockchain that uses verifiable random numbers.
- Wrote the front-end using **React** in **Typescript** and wrote the back-end in **NodeJS**.
- Practiced using multiple APIs to interact with the blockchain and learned the principles of blockchain programming.

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- Founded and led a team of 30 individuals focused on developing, funding, and launching a cube satellite project.
- Raised over \$10k in funding and published in the AIAA Conference on Small Satellites.

SKILLS

Languages: Java, Python, C, OCaml, SQL, Rust, JavaScript (& TypeScript), C++, Go, Solidity, Bash, Ruby Tools/Frameworks: Git, Docker, Tensorflow/Keras, PyTorch, Pandas, React.js, Node.js, UNIX (& Networking)