

Gautom Das

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EDUCATION

University of Maryland, College Park

Aug 2020 – May 2024

Bachelor of Science in Computer Science and Math

College Park, MD

- **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

June 2021 – October 2021

Software Engineering Intern

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 – Aug 2021

Software Engineering Intern

College Park, MD

- 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

Jan 2021 – Jan 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 Sha1 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
- Peer message handling was done asynchronously(asyncio) using **coroutines** 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.
- Front-end written using **React** in **Typescript** and a back-end written 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 dollars** 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)