

Ayush Sharma

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EDUCATION

Bachelor's in Computer Science at Georgia Institute of Technology

December 2023

Related Coursework: Data Structures, Algorithms, Systems Programming and Organization, Machine Learning

Software Skills: Java, Python, C++, Azure, AWS, Node.js, Tableau, TensorFlow, PowerBI

Activities: Georgia Tech Soccer Club, CEISMC Student Program, Undergraduate Consulting Club, Product Management Club

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant: Georgia Tech Research Institute – Atlanta GA

(August 2021 – Present)

- Collaborating with team of undergraduate and graduate students assigned to a Cisco and L3Harris research project building Intelligent Digital Communication devices.
- Developing radio prototype to automatically process and analyze geospatial data from Bobby Dodd Stadium.
- Responsible for efficiently combining and scrubbing through geospatial data from multiple distributed RF sensors across Bobby Dodd Stadium.
- Implemented TensorFlow and Python source code architecture to scrub data by 60% increase in efficiency.

Summer Associate: PricewaterhouseCoopers – New York City, NY

(May 2022 – August 2022)

- Directed discussions between executives and operations staff of two client engagements valued at \$6.3MN by leading joint discussions and performing stakeholder analysis.
- Spearheaded noSQL database migration from AWS DynamoDB to Azure Cosmos DB for Fortune 100 e-commerce and retail giant, Walmart.
- Piloted and implemented an innovative IT architecture reorganization to reduce server maintenance costs in low-latency trading network systems for Goldman Sachs Consumer & Investment Management Operations.
- Actively managed engagement progress and financials, issuing new budget proposals, and leveraging strong client relationships to sell over \$75K in additional work.

Product Management Intern: Vee Ventures

(May 2021 – August 2021)

- Worked on machine learning and data science product solutions for Vee Ventures clientele.
- Spearheaded product development for a data analytics dashboard to improve Ford Motors' Autonomous Vehicles candidate retention rate by 80%.
- Developed an NLP-powered search index with AWS Textract and Comprehend to identify, understand, and extract data from scanned documents.
- Enabled customer to combine internal and external data on their own environment to make business decisions in hours instead of days.

Algorithm Engineer Intern: U.S. Bank – New York City, NY

(Jan 2021 - August 2021)

- Lead technical development of an advanced cybersecurity application called the Decentralized Identity Pilot (DID) with Microsoft Azure for U.S. Bank Investment Management Group (IMG) clientele.
- Delivered business case whitepaper to senior U.S. Bank executives showcasing the impact of DID in assisting to secure more than 18.7 million customers data and more than \$8.7 billion in assets.
- Deployed AWS Sagemaker model to analyze risk-adjusted returns for IMG clientele portfolios.
- Collaborated with team of interns in prioritizing KPI, creating user stories, writing product documentation to test new functionality, and conducting User Assurance Testing & Quality Assurance for Cross Border.

Software Engineer Intern: Northrop Grumman – Atlanta, GA

(May 2020 – August 2020)

- Developed a Microsoft PowerApp for the Centers for Disease Control and Prevention (CDC) Public Health Department which handles automated testing with PowerBI, PowerAutomate and Python.
- Lead a team of 3 interns to design a second PowerApp for the CDC Prevention Research Center to allow users to add research projects for the Department of Non-Infectious Diseases.
- Implemented a REST API and interactive United States Map to automate facts sheets for all 50 US States for the Office of Smoking & Health.
- Contributed on COVID-19 Data Tracker with CDC Data Scientists. Wrote primarily with NumPy and Python.

PROJECTS

KAST Xtra

- Software system designed to assist various entertainment companies with volunteers' registration and ticket sales.
- Established track record of working with numerous events with an average of 500 participants.
- UI design framework: HTML, CSS, AngularJS, and Bootstrap
- Backend infrastructure framework: MongoDB, Node.JS, and JSON Web Token (JWT)

Stock Market Predictor

- Recurrent Neural Network model to predict long-term or short-term stock gains for investors and traders based off 150 days of previous stock data.
- Written using Python and implemented with Keras Neural Networks, TensorFlow and LSTMs.