Ayush Sharma

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EDUCATION

Bachelor's in **Computer Science** at **Georgia Institute of Technology**   **December 2023**

Related Coursework: Data Structures, Algorithms, Machine Learning, Systems Programming and Organization
Technical Skills: Java, Python, Azure, Google Cloud, AWS, MongoDB, Node.js, TensorFlow, PyTorch, PowerBI
Other Skills: Agile, CI/CD, Product Design, Stakeholder management, Data Analysis, User Research, and Quality Assurance Testing
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 to produce a smart drone with L3Harris to help Cisco Systems strengthen weak cellular 5G areas in Bobby Dodd Stadium.
- Responsible for efficiently analyzing and cleaning geospatial data gathered from multiple GPS sensors in Bobby Dodd.
- Gathered, arranged, and corrected research data to create representative graphs and charts highlighting results for presentations for L3Harris and Cisco Systems sponsors.
- Deployed Python code within TensorFlow environment to increase geospatial accuracy by 30%.

Summer Technology 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 by 45% in Goldman Sachs Consumer & Investment Management Operations low-latency trading systems.
- Actively managed engagement progress and financials, issuing new budget proposals, and leveraging strong client relationships between PwC and Goldman Sachs executives.

Product Management Intern: U.S. Bancorp Investments – New York City, NY   **(Jan 2021 - August 2021)**
- Lead technical development of Azure CosmosDB provisioning for an advanced cybersecurity application, Decentralized Identity Pilot (DIP), to prevent fraudulent activity on U.S. Bancorp Investment Management Group (IMG) clientele portfolios.
- Delivered business case whitepaper to senior U.S. Bank executives showcasing the impact of DIP in assisting to secure more than 18.7 million clients' data and more than $8.7 billion in assets.
- Collaborated with team of interns in prioritizing KPI, creating user stories, writing product documentation to test new functionality, and conducting Quality Assurance Testing for Cross Border, an international financial transaction application.
- Deployed AWS SageMaker model to analyze risk-adjusted returns for IMG clientele portfolios.

Software Engineer Intern: Northrop Grumman Defense Systems – 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

Stock Market Forecaster
- LSTM-based Recurrent Neural Network (RNN) model to determine long-term stock and bond gains based off U.S. financial market data from the past 150 days funneled from the yahoo finance API.
- Tested and executed for investment portfolio of $5,000 with a 250% portfolio value increase in 6 months.
- Written using Python and implemented in PyTorch.

Kast Xtra
- Website based application designed to assist event planning firms with volunteers' registration and ticket sales.
- Established track record of aiding 4 events with more than 200 volunteers, and $30K in revenue combined from all 4 events.
- Backend framework: Google Firebase Realtime Database, Node.js
- Frontend framework: HTML, CSS, Bootstrap, and AngularJS.

Seattle Real Estate Predictor
- Collaborated with a team of undergraduate students to derive multiple working prediction models using machine learning techniques and quantitative analysis for best accuracy when calculating approximate real estate pricing in Seattle, WA.
- Engineered core algorithm of the random forest regression model to predict real estate market values with 10% margin error.
- Organized and cleaned data from Seattle Real Estate sale prices from 2010 – 2021 for proper data manipulation.