Ayush Sharma

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PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant: Georgia Tech Research Institute   **(August 2021 - Present)**
- Works on 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 data from multiple distributed RF sensors across the stadium.
- Implementing TensorFlow and Python architecture increases efficiency for scrubbing data by 60%.

Machine Learning 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.

Software Engineer Intern: U.S. Bank Investment Management Group   **(Jan 2021 - May 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   **(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

4 Years Mentor System
- Fully operational website with an embedded NoSQL Database to live track all mentors logged in hours and payments.
- Built with Google Firebase, Cloud Firestore, Python, JavaScript, and HTML.

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.

EDUCATION

Bachelor's in **Computer Science** at **Georgia Institute of Technology**   **(May 2019 – August 2023)**

Related Coursework: Discrete Math, Multivariable Calculus, Linear Algebra, Management Statistics, Data Structures

SKILL-SET

Product Skills: Product Management, Defining Requirements, Product Design, Stakeholder management
Project Management Skills: Agile, Scrum, CI/CD
Software and Language Skills: Java, Python, C++, Azure, AWS, Tableau, TensorFlow, PowerBI
Other Skills: QA Testing, UA Testing, User Research, Data Analysis, Market Analysis