ASHRAY CHOWDHRY

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Passionate computer science student concentrating in Artificial Intelligence with a deep interest in finance and business. Looking for opportunities that will build upon my collaborative, analytic, and problem solving skills through team-based projects.

EDUCATION

Georgia Institute of Technology, Atlanta, GA   B.S. in Computer Science (Expected May 2022)   **3.95** GPA
Relevant Courses: Machine Learning, Networking, Database Design, Data Structures, Financial Modelling, FinTech/Cryptocurrency

West Windsor – Plainsboro High School South, Princeton Junction, NJ   Graduated June 2019   **3.96U/4.75W** GPA
National Merit Finalist, Science Olympiad State Champion, Continental Math League Finalist, National Honor Society Member

PROFESSIONAL EXPERIENCE

Software Engineering Intern   *Capital One Financial,* Richmond, VA
06/2021 – 08/2021
- Spearheaded the Savings Success web platform to provide convenient digitized retirement planning
- Created customer-ready viable product with React.js, Python Flask, PostgreSQL, and AWS

Data Analytics Intern   *John Deere Financial,* Des Moines, IA
06/2020 – 08/2020
- Developed customer churn predictive model to improve buying trends analysis with PySpark & SQL
- Optimized model by over 15% and structured for production with Databricks and MLFlow

Undergraduate Researcher   *Sustainable Design and Manufacturing Laboratory,* Atlanta, GA
12/2019 – Present
- Designed a modelling software to streamline simulation of large-scale ecosystems with MATLAB
- Implement web application for user-friendly third-party ecological network analysis with React JS
- Co-authored a published IEEE Systems journal paper of a novel systems metric

Student IT Assistant   *Georgia Tech Office of Information Technology,* Atlanta, GA
12/2019 – 11/2020
- Assisted end users with a variety of data services through ServiceNow and Excel

Research Intern & Partner   *Rutgers University Continuous Manufacturing Laboratory,* New Brunswick, NJ
06/2018 – 03/2019
- Created cybersecurity system for continuous pharmaceutical manufacturing control system
- Compiled work across several research sources to identify production areas of vulnerability

PROJECTS

Algorithmic Crypto Bot   *Cloud-hosted Interactive & Autonomous Service*
08/2021 – Present
- Host an autonomous bot to actively manage cryptocurrency investment accounts
- Operated 24/7 service in AWS, integrated with Telegram, and backtested/optimized with Python.

SplitWay   *Website Application*
11/2019 – 12/2019
- Implemented application to simplify ridesharing for college students to common university events
- Developed web service with a Bootstrap frontend, Python Flask` backend, and mySQL

FoodSplash   *Online Website Platform*
03/2017 – 05/2019
- Created and promoted a convenient platform for connecting food donors with nonprofits

Self-Steering Race Car   *Autonomous Electric Vehicle*
09/2016 – 07/2017
- Implemented parallel data processing and PID error-correcting algorithms to reliably capture sensor data and make decisions regarding steering, velocity, and route guidance - awarded 8th nationally

Vision AR Robotic Arm   *Camera-Based Shadowing Robotic Arm*
10/2016 – 05/2017
- Interfaced with LeapMotion camera to control Arduino-based custom robot with body movements
Developed a live-update controller with JQuery, Johnny-Five, and Node.js

EXTRACURRICULAR ACTIVITIES

Senior Portfolio Analyst   *GTSF Investment Committee*, Atlanta, GA
08/2019 – Present
- Provide equity trends analysis for the GT Committee's $2.1 million portfolio
- Present potential investments utilizing DCFs, relative valuations, and other fundamental analysis

Leadership Committee   *A2Z Mentoring*, East Windsor, NJ
03/2017 – 06/2019
- Mentored disadvantaged students in STEM topics, headed group's involvement in NJ Triathlon

SKILLS

Software: Java, JavaScript, Python, C, C++, AWS, MATLAB, SQL, HTML, CSS, Arduino C, UML, Git
Frameworks: React.js, PyTorch, Tensorflow, Node.js, Flask, Bootstrap, Spark, Express.js, AutoCAD, Adobe/Microsoft Suites
Finance: Equity Analysis, Bloomberg Terminal, Options Trading, Fixed Income, Algorithmic Trading, Valuation
Hardware: Electric Vehicular Design, Arduino/Raspberry Pi Prototyping, Circuit Design/Soldering, 3D Printing, Woodworking
Communication/Leadership: Spanish (Intermediate), Hindi (Intermediate), Mentoring, Entrepreneurship, Guitar, Tennis