ASHRAY CHOWDHRY

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Passionate engineering/finance enthusiast with 4+ years of experience, focusing on artificial intelligence, blockchain technology, and quantitative finance. Looking for an opportunity that will build upon my collaborative, analytic, and problem-solving skills.

EDUCATION

Georgia Institute of Technology, Atlanta, GA   B.S. in Computer Science, Cert. in Finance   3.95 GPA
Relevant Courses: NLP, Machine Learning, Networking, Database Design, Data Structures, Fin. Modeling, FinTech/Cryptocurrency

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

PROFESSIONAL EXPERIENCE

Software Engineer II   12/2023 – Present
Ripple Labs, New York City, NY
- Operate as community admin/maintainer for open-sourced XRP Ledger blockchain servers (L1), libraries and APIs
- Integrate new features on the XRP Ledger in C++, maintain APIs in Python, JavaScript, and Rust
- Build the XRPL Explorer (React.js/Node.js) for robust community analytics about the XRP Ledger

Software Engineer I   07/2022 – 12/2023
Ripple Labs, New York City, NY
- Integrated B2B blockchain payment solutions in RippleNet for payment routing, distribution, and smart liquidation.
- Owned, architected, and delivered a customer onboarding service that reduced institutional onboarding time by 60%
- Created services, APIs, and testing platforms via Java, AWS, Salesforce, TypeScript, SQL, Node.js

Software Engineer   05/2021 – 09/2021
Capital One Financial, Richmond, VA
- Spearheaded the Savings Success web platform to provide convenient digitized retirement planning
- Created customer-ready viable product with React.js, Python Flask, PostgreSQL, & AWS

Data Analytics Engineer   05/2020– 9/2020
John Deere Financial, Des Moines, IA
- Developed customer churn predictive model to improve buying trend analysis with PySpark & SQL
- Optimized model by over 35% and structured for production with Databricks and MLFlow

Systems Eng. Modeling Researcher   12/2019 – 06/2022
Sustainable Design and Manufacturing Laboratory, Atlanta, GA
- 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

PROJECTS

MakeSwift (*Consulting work at Atlanta-based startup***)**
- Develop automation scripts to expedite client codebase migrations through code generation in TypeScript, bash

Abeona Trips (*Group Travel Planning & Booking Platform***)**
- Smart-flight finding and booking with React.js, Node.js/Express, MongoDB, and AWS. InVenture semifinalist

Algorithmic Cryptocurrency Trading Bot (*Cloud-hosted Interactive & Autonomous Service*)
- Autonomous 24/7 bot to manage accounts in AWS, Telegram-integrated, and backtested/optimized with Python

SplitWay (*Website Application***)**
- Application to simplify college student ridesharing with Bootstrap, Python Flask, SQL

Self-Steering Race Car (*Autonomous Electric Vehicle***)**
- Parallel data processing and PID error-correcting for steering, velocity, and route guidance - awarded 8th nationally

Vision AR Robotic Arm (*Camera-Based Shadowing Robotic Arm***)**
- LeapMotion camera-controlled Arduino-based custom robot with body movements with JQuery, Johnny-Five, Node.js

SKILLS

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