SALONI SHAH

732-266-1361 | salonishah331@gmail.com | linkedin.com/in/salonishah331 | salonishah.dev | US Citizen

EDUCATION

B.S. in Computer Science, ***Georgia Institute of Technology*** **Aug 2018 – May 2022**

- **Concentrations:** Artificial Intelligence and Human Computer Interaction

M.S. in Computer Science, ***Georgia Institute of Technology*** **Jul 2024 – May 2026 (Expected)**

- **Concentrations:** Machine Learning

SKILLS

- **Programming:** Python, C++, Java, JS, Swift, C, C# **Databases:** MongoDB, SQL | **Web:** Django, React, HTML, CSS | **Misc:** AWS, Linux
- **Relevant Coursework:** Artificial Intelligence, Combinatorics, Computer Organization & Programming, Computer Vision, Data Structures, Algorithms, Discrete Mathematics, Linear Algebra, LLMs, Machine Learning, Object-Oriented Programming, Statistics and Applications, UIs

PROFESSIONAL EXPERIENCE

Microsoft

Software Engineer | Azure Core – Autopilot Time Team **Aug 2022 – Present**

- Architect and maintain the Network Time Protocol in **C++** to ensure optimal time synchronization for Azure Virtual Machines
- Developed comprehensive dashboards to monitor and analyze offsets in real-time. Integrated an alert system to scan dashboards to proactively identify potential virtual machine (VM) outages, resulting in 20% fewer customer-reported offset incidents and 5% decrease in downtime
- Implemented an auto-healing feature to autonomously detect failing machines and repair or reboot VMs with no customer downtime
- Developed a **PowerShell** based optimization system to streamline Azure node recovery during incidents, resulting in decrease in revenue loss
- Act as the Designated Responsible Individual for the NTP service by responding to customer incidents and making necessary code fixes

Software Engineer Intern | Azure Core – Pilotfish Team **May 2021 – Jul 2021**

- Automated the process of scheduling routine Azure cloud computing server hardware maintenances for 300,000+ servers
- Developed a client in **C#** to parse maintenance requests and interface with a maintenance API, enabling manipulation of server functionalities
- Enhanced the efficiency of the **PowerShell** scheduling application, resulting in a 50% reduction in overall processing time and error rate

Amazon *Software Development Engineer Intern | Echo BSP* **Jul 2021 – Oct 2021**

- Designed, implemented, and tested a new feature using **C++** and **C#** to enhance user experience on a specified subset of Echo devices
- Authored and presented a 15+ page design document to outline architecture, define usability, and analyze scalability to 15 stakeholders
- Collaborated with QA team to rigorously test and validate over 1500 lines of code, ensuring quality and functionality before deployment

Genesys *Software Engineer Intern | iOS Team* **May 2020 – Aug 2020**

- Redesigned the iOS application with the XMPP Framework to enhance user experience and incorporate branding changes
- Integrated private key data encryption on messages in the communicate app utilizing **Swift, Objective-C** and **Firebase**
- Implemented a 3D-Touch feature that revealed a context menu for the Communicate app, accessible to a user base with 3,000+ consumers

Stackfolio (acquired JKHY) *Software Engineer* **Oct 2019 – Feb 2020**

- Designed the user interface of the platform using **HTML/CSS** and **Django** and utilized **MongoDB, Python, jQuery** for backend changes
- Collaborated daily with the CEO, Head of Engineering, and the QA to develop go-to-market and growth strategies and push new features
- Built a pre-purchase feature to prospect clients and developed an algorithm that autogenerates deal suggestions, leading to a 20% increase in client acquisition and a 40% boost in web traffic

Bits of Good *Fullstack Developer (Volunteer) | PACTS* **Oct 2019 – Feb 2020**

- Built an interactive map using **Node**, **ReactJS**, and **Firebase** to connect users with behavioral health resources in the vicinity
- Developed a web-based portal using **MongoDB** and **ReactJS** to streamline the nonprofit project request application process

LEADERSHIP EXPERIENCE

Startup Exchange (*Executive Director)* **Jan 2021 – Dec 2021**

- Managed teams spanning across 150+ organizers with 7,000+ students at events from 40+ universities nationwide
- Partnered with Google, Meta, Anthropic, Nvidia, the City of Atlanta and buildspace (backed by a16z + YC)
- Hosted pitch competitions, networking events, speaker sessions (Chris Klaus, Blake Patton), hackathons and a fellowship program
- Taught divide and conquer, dynamic programming, graph algorithms, complexity theory, NP-completeness, and Big O topics

Georgia Institute of Technology College of Computing (*Undergraduate Teaching Assistant | Algorithms)* **Jan 2021 – Dec 2021**

- Held weekly office hours, assisted the professor in writing test and homework material, and graded exams of 150+ students
- Taught divide and conquer, dynamic programming, graph algorithms, complexity theory, NP-completeness, and Big O topics

Georgia Tech Research Institute (*Team Lead | Machine Learning)* **Aug 2019 – May 2021**

- Led a team of 10 in creating a recommendation algorithm by training a neural network to output measures of 10+ features
- Utilized **Python**, **Scikit-learn**, **Pandas**, and **NumPy** to classify 14 comedians and 30+ categories from 9,000+ jokes
- Achieved 94.8% accuracy by employing K-Nearest Neighbor, Decision Tree, Naive Bayes, and LDA classifiers

Bubble – Hyperlocal Chat (*Product Manager)* **Aug 2020 – May 2021**

- Led a team of 15 in evaluating market landscape, value proposition, target users, and stakeholder groups of the application
- Collected and analyzed 1500+ data points to output product strategy with suggestions for UI improvement and marketing

PERSONAL PROJECTS

Machine Learning for Pairs Trading **Jan 2021 – Apr 2021**

- Processed a S&P 500 (2013 – 2018) dataset and utilized PCA, OPTICS clustering and ADF test to find cointegrated stock pairs
- Trained and ran lasso and ridge linear regression models using **Python** to predict a pair of stock's spreads to determine z-scores
- Utilized K-Fold Cross Validation and back tested the algorithm resulting in an increase in returns of 20.2% over the testing period