

SHAURYA SRIVASTAVA

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PROFESSIONAL EXPERIENCES

Microsoft, Mountain View, CA

Software Engineer 2 (IC3)

09/2023-Present

Software Engineer (IC1, IC2)

06/2021-08/2023

- Tackling scalability challenges and improving performance for Azure Data Lake Storage Gen2
- Significantly improved system performance by implementing caching for security group membership, leading to an ~50% reduction in request payload size and a 5-fold increase in concurrent request handling for users part of numerous security groups
- Revamped the entity creation logic to improve efficiency and increase reliance to workload antipattern
- Redesigned the API that sets properties on entities recursively to enhance its reliability

Software Engineer Intern

05/2020-08/2020

- Worked on the Change Feed Events feature for the Azure Storage Big Data team
- Implemented custom sorting algorithms and built an end-to-end flow with C++ to produce an ordered set of logs for operations performed on the Azure Data Lake Storage Gen2 File System

ServiceNow, Santa Clara, CA

Software Engineer Intern

06/2019-08/2019

- Utilized Agile methods to develop new customer features using JavaScript for the HR Service Delivery cloud application
- Streamlined the integration of SuccessFactors by migrating the legacy framework to a spoke utilizing Flow Designer and Integration Hub cloud tools with JavaScript
- Identified defects, solved teething issues, and provided feedback for improved usability of Flow Designer and Integration Hub

University of Maryland College Park – Natural Gestures Research, College Park, MD

Software Developer/Researcher

09/2018-05/2019

- Developed a scheduler in Python to maximize the number of volunteer pairs who can participate in the research

SmartQED, San Mateo, CA

Machine Learning Intern

06/2018-08/2018

- Developed a Supervised Machine Learning classifier algorithm and web scraped for data in Python
- Improved Machine Learning classifier algorithm from 78% to 83% accuracy and speed of web scraping by 20%
- Experimented with decision tree, KNNs, and logistic regression models

EDUCATION

University of Maryland College Park (GPA: 3.877, Graduation: 05/2021) – B.S. in Computer Science, Minor in Statistics

Monta Vista High School (Graduation: 06/2018), Cupertino, CA

CERTIFICATIONS

University of California, Berkeley (Expected: 03/2024) – Professional Certificate in Machine Learning and Artificial Intelligence

PROJECTS

Quicklinks

- Developed an open source, one-stop page for people to have quick access to your socials and important links
- Made with NextJS, containerized using docker, and analytics managed by Google Analytics

QuickFiller

- Built a full stack web app and extension using ReactJS and AWS amplify frameworks to help people fill job applications faster
- Utilized Stripe to handle subscription payments and Airtable to store messages contacting the QuickFiller team

Challenge on Learned Image Compression

- Developed an ML algorithm using a combination of masked rcnn and fully convolutional autoencoders to compress images better than traditional compression algorithms

Brain Stimulator

- Developed an iOS app using Swift which consists of activities to analytically stimulate the minds of people with brain injuries

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TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, Ruby, Swift, R

Skills: Full Stack, Machine Learning, Cloud, Backend, Frontend, Databases, Mobile, Data Structures, Algorithms, OS, Networking

Frameworks: ReactJS, Flask, React Native, PyTorch, TensorFlow, NodeJS

RESEARCH PAPERS

A Novel Deep Learning Approach to Lossy Image Compression

- Presented a new method for lossy image compression that utilizes image segmentation to compress images into a smaller size than traditional algorithms

Franchise Investment Plan, Smoothie King

- Conducted financial and market research to create an investment plan for franchising Smoothie King

Startup Analysis in the Healthcare Industry

- Performed market analysis in the Healthcare industry and pitched a new product idea for a startup

ADDITIONAL ACTIVITIES

Eagle Scout, Boy Scouts Troop 493

- Lead training sessions for scouts during outings for essential skills
- Conduct Board of Reviews for evaluating rank advancement for scouts
- Actively assist scouts in executing their Eagle projects
- Organize gatherings for Troop 493 Alumni, fostering a sense of community
- Collaborate with Alumni scouts to enhance various aspects of troop activities, ensuring continuous improvement

University of Maryland Alumni Association

- Share valuable insights and offer mentorship to help students navigate their academic and professional journeys

Director of Operations for Startup Shell

- Managed operations for Startup Shell, overseeing day-to-day activities and ensuring smooth function
- Maintained the Startup Shell website, providing a user-friendly platform for members to access information and resources
- Created a comprehensive Notion page showcasing available resources, continually updating it for the benefit of members

Sponsorship Team for Technica

- Played a key role in the Sponsorship Team for Technica, securing agreements with emerging companies that hadn't previously sponsored the event
- Successfully encouraged existing sponsors to elevate their commitment by opting for higher sponsorship tiers, contributing to the event's growth and success

3rd Degree Black Belt Holder and Former Instructor, International Taekwondo Federation

- Achieved 3rd Degree Black Belt in Taekwondo, showcasing dedication and mastery of martial arts
- Served as a former instructor at the MightyFist Taekwondo school, imparting knowledge and instilling discipline in students