Pranay Shah

US Citizen | 214-336-7580 | pshah413@gatech.edu | linkedin.com/in/pshah413 | pshah413.github.io

Education

Georgia Institute of Technology — Atlanta, GA May 2024

Bachelor of Science in Computer Science, GPA: 3.86, Major: 4.0 *Dean's List, Faculty Honors*

- Coursework: Advanced Algorithms, Data Structures & Algorithms, Computer Organization, SW Objects & Design

Experience

Fidelity Investments Westlake, TX

Software Engineer Intern *- Cloud Infrastructure Team* *Jun. 2022 – Aug. 2022*

- Automated migration of 230+ apps from old (Jenkins/uDeploy/Concourse) to new infra (Jenkins Core/Terraform)
- Reduced migration onboarding from 4-6 weeks to 1-3 days using Step Function/DynamoDB/Lambda/CloudWatch
- Integrated Datadog into step function to upload 25 products & 230+ apps onto Datadog for logging and telemetry
- Tracked 25 metrics for senior leadership showing migration status & economic impact, using DynamoDB/Lambda
- Deployed Terraform-based infrastructure to development & live environments using Jenkins Core CI/CD pipelines

Card Curator Philadelphia, PA

Software Engineer Intern *- Backend Engineering Team* *Jun. 2021 – Aug. 2021*

- Eliminated 100+ hours of manual effort annually by updating MongoDB credit card database using scraped data
- Reduced integration delay from 1 week to 1 day by creating automated pipeline to notify developers of card issues
- Ran situational tests on hotel & flight data using Behave test framework to test & optimize algorithm suggestions
- Prevented credential exposure upon deployment using configuration file, storing sensitive login & email information

University of Texas at Austin Austin, TX

Machine Learning Researcher *- Learning Agents Research Group* *Jun. 2020 – Dec. 2020*

- Optimized path-planning algorithm for high-dimensional robotic arms by leveraging convolutional neural networks
- Generated 10,000 workspaces & configuration spaces by engineering robotic arm graphical simulator using Python
- Implemented A* path-planning algorithm for robotic arms with 2 & 3 dimensions to generate model training data
- Leveraged Matplotlib & NumPy as well as OMPL API & Klamp't API for arm simulation & workspace generation
- Designed convolutional neural network using Keras & TensorFlow to decrease path-planning time versus Dijkstra's

Projects

QuickTrack | *Terraform, AWS (API Gateway, Lambda, Step Functions, CloudWatch), Node.js*

- Architected cloud-enabled low-cost serverless system to quickly process credit card payments & track card refunds
- Built REST API using Terraform, API Gateway & Lambda integration & managed workflow with Step Function

Experimental Flights | *MongoDB, Express.js, React.js, Node.js, Docker, Git*

- Tracked location and status of delivery drone for testing of package delivery system around Georgia Tech campus
- Developed full-stack web app using MongoDB and Node.js serving REST API & containerized app using Docker

Leadership & Activities

Georgia Tech Web Dev Club | *Officer & Project Lead*

- Coordinated with team of 6 officers to host 10 in-person lessons & weekly office hours for 50+ student developers
- Taught web development & MongoDB, Express.js, React.js, Node.js & Git to 8 developers within 2 project teams

YouthTech Inc. | *Lead Technology Instructor*

- Led application development camp and broke down conditional logic principles to 40+ students from ages 7 to 14
- Coordinated with 8 instructors & recreational staff to prepare & host technical workshops across DFW metroplex

Technical Skills

Languages & Frameworks: Python, Java, JavaScript, MongoDB, Express.js, React.js, Node.js
Developer Tools & Libraries: Git, Amazon Web Services, DevOps, Jenkins Core, Postman, Docker, CI/CD, Agile