Pranay Shah

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Education

Georgia Institute of Technology — Atlanta, GA Expected: December 2023
Bachelor of Science in Computer Science, GPA: 3.93, Major: 4.0 *Dean's List, Faculty Honors*

Experience

Cruise Bellevue, WA
Software Engineer Intern *- Infrastructure, Developer Productivity Team* *May 2023 - Aug. 2023*

- Drove 22.8% reduction in configuration issues for 900+ devs through self-service diagnostic CLI tool, using Golang
- Secured 92.3% success rate & 12.6% uptime increase through rollout of 43+ CLI tool features via feature flagging
- Reduced issue resolution time by 24%+ via Slack integration, resulting in real-time, automated reporting of issues

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

Odynn (Wharton Venture '21) New York, NY
Software Engineer Intern *- Infrastructure 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 *- Path-Planning 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

Hydra — Distributed Big-Data Framework | *Go, AWS (EKS, S3, SQS), Kubernetes, Docker*

- Implemented a distributed MapReduce system that processes large data sets in parallel across many worker nodes
- Incorporated AWS Load Balancer to distribute requests among worker pods considering CPU/memory utilization

QuickTrack — Inventory Management System | *SQL/MySQL, Express.js, React.js, Node.js, Git*

- Created inventory management system to quickly help employees track and update business products & processes
- Led & managed 3 developers to create a full-stack web app using SQL/MySQL and Node.js serving REST API

Scholastician — Virtual Tutor Matching Hub | *SQL, Express.js, React.js, Node.js, Git*

- Impacted 3,000 students during the pandemic by developing full-stack web app to pair students and tutors for free
- Awarded Congressional Commendation from TX-03 Rep. for outstanding community impact within DFW area

Technical Skills

Languages & Frameworks: Python, Golang, C, Java, JavaScript, Node.js, Express.js, React.js, SQL, Bash
Developer Tools: Git, Amazon Web Services (Lambda, DynamoDB, S3, Step Functions, CloudWatch), Linux, Microservices, Jenkins, Postman, Docker, Kubernetes, MySQL, LDAP, Datadog, DevOps, CI/CD