Sohan Patil

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Skills

Languages: Proficient - Java, C, Go, SQL, HTML; Prior Experience - Python, Swift, PHP, NoSQL, Shell, JS Tools and Frameworks: Kubernetes, Docker, AWS, RabbitMQ, Linux Networking, Pandas, D3.js, Hadoop Stack, NodeJS, Angular, Spring, Flask, ASP .Net, JSP, Mobile (Android, iOS), Maven, GIT, JIRA

Education

State University of New York at Stony Brook

Stony Brook, New York

M.S. in Computer Science; GPA: 3.77/4

Aug 2019 - Dec 2020

- o Teaching Assistant (for a class of 200+ students): CSE 373, Analysis of Algorithms, Spring 2020
- Advanced Project (bit.ly/eyecando): Enabling ALS patients to use iOS apps like Notes, Mail, Smart Home and Music through eye tracking. Tools used: Apple ARKit2, Swift 5, Firebase, CocoaPods

Government College of Engineering

Aurangabad, India

B.E. in Computer Science and Engineering; GPA: 8.35/10

July 2013 - June 2017

Work Experience

Nutanix

San Jose, California

Software Engineering Intern, CTO Office Team

June 2020 - Aug 2020

- Achieved a 25% boost in pod networking performance by implementing a Kubernetes CNI-IPAM plugin for Nutanix's managed Kubernetes service. Tools used: Kubernetes, Go, gRPC, Netfilter
- Developed a 67% cheaper Disaster Recovery solution for "Clusters on AWS" product featuring 1 minute per recovery point and 15 minute recovery time (Won 1st place in UHack '20). Tools used: AWS, Wireguard, Zookeeper

Principal Financial Group (PFG)

Pune, India

Software Engineer

July 2017 - Aug 2019

- Engineered an in-house Optical Character Recognition based claims processing tool, replacing IBM's Datacap, thus saving \$500,000 per year in licensing costs. Tools used: PyTesseract, Spring, Angular, OAuth2
- Implemented a batch synchronization tool between on-premise data warehouse and public cloud, saving 150 working hours per sprint. Tools used: Mulesoft, DB2 LUW, Salesforce Cloud API
- Slashed go-live time to 30% as a consequence of automating day-to-day maintenance tasks around Git and code vulnerability analysis. Tools used: Shell, Selenium, HP Fortify, SONAR
- o Trained six interns on domain knowledge as well as Agile practices, Git, Angular and Bootstrap Framework

Key Projects

- KVStore: Built a fault-tolerant, serializable distributed key-value store using Raft algorithm for consensus in Go (Fall '19)
- Distributed MapReduce: Built a MapReduce scheduler capable of relaunching failed map/reduce jobs in Go (Fall '19)
- COVID-19 Analysis: Used Hadoop MapReduce and Spark to process COVID-19 datasets while visualizing the insights using D3.js framework. Used spatial databases to find hospitalization trends (Spring '20)
- Slide to Type: Built a multi-channel sokgraph detection tool using SHARK² algorithm as a clone of SwiftKey keyboard, using Flask. Used multiprocessing module to boost gesture recognition speed to 5x (Fall '19)
- Spoiler Blocker Chrome Plugin: Used JQuery & TMDb API to blur Facebook wall posts with movie spoilers (April '19)
- Simple DB: Implemented a basic clone of SQLite which uses B Tree and B+ Tree as Index and Page file nodes (Jan '19)
- Remote File Security System: Used C# & .Net Framework to create a secure desktop file manager operable through an Android app via RPCs. Helped users to view, delete, encrypt, decrypt, hide personal files on a shared computer (2017)

Achievements & Extracurricular

- 1st place, Nutanix Intern Hackathon: Built a low-cost Disaster Recovery solution for "Clusters on AWS" (July 2020)
- 1st place, PFG Hackathon: Used Google Web Speech API & ML to manage JIRA service tickets through voice (Jan 2019)
- 1st place/800+, PFG Rising Star Award: Recognized as the best performer below 3 years of experience (May 2018)
- 2nd place/75000+, SEED IT Idol (bit.ly/seed-winners): An intercollegiate state level coding competition (Apr 2016)