Nishchay **Parashar**

RESEARCH ENGINEER · COMPUTER SCIENCE & ENGINEERING · DEVELOPER · COMMUNITY BUILDING

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Education

Brown University   *Providence, RI, USA*

MASTER'S IN COMPUTER SCIENCE   *Sep. 2022 - May 2024 (expected)*

- Systems pathway specialization.
- Fall 22 courses: Computer Systems(CSCI1330) and Design and Analysis of Algorithms(CSCI1570).

Manipal Institute of Technology   *Manipal, India*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING (MINOR: BIG DATA)   *Aug. 2016 - Aug. 2020*

- GPA: 3.96/4.0 (WES evaluation). GPA: 8.69/10.0.
- Lead a community of 1500+ students as General Secretary of Computer Science club - university's largest technical society.
- Recognized by GitHub Education as one in less than 250 global Campus Experts on the basis of community building, management and software development skills.

Work Experience

Samsung Research - Samsung Semiconductor India Research   *Bangalore, India*

SENIOR ENGINEER   *Aug. 2020 - Jul. 2022*

- Developed and owned multiple microservices (infra provisioning, observability, notification management) essential to the department's flag-ship automation platform. Ensured end-to-end delivery and 100% up-time exceeding delivery milestone expectations.
- Built distributed log pipelines and complementary in-house analytics engine to tackle Software Quality Assurance problem statements. Working extensively on search platform technologies like Elastic stack and solving distributed system performance optimization problems.
- Held primary ownership of Analytics and ML branch of service - developing features such as false positive detection identifying avg 200 test cases per release of 100k test cases, failure root cause analysis and failure similarity search. Facilitating improvements in test benches of 7+ memory products.
- Presented internal technical paper as 1st author on 'Failure Analysis, Failure Triaging and Test Optimization using Data Science and Analytics' at Samsung India Research Developer's Day TechCon 2020, submitted papers and conducted technical demos regularly in internal research seminars.

SOFTWARE DEVELOPER INTERN   *Jan. 2020 - Jul. 2020*

- Part of the team developing Composable Infrastructure and Hybrid Cloud solution to be used by Samsung R&D centers globally.
- Contributed with multiple research assignments, experiments and 2000+ lines of code, working extensively on the forward-looking concept of Composable Infrastructure and employed established open-source tools like OpenStack, Puppet-Razor, Juju and Django.

Physiz AgTech   *Mumbai, India*

SOFTWARE DEVELOPER   *May 2019 - Jul. 2019*

- Worked on backend development for the company's core product implementing multiple major features and developing 30+ API routes enabling the team to stay on track for their global release.
- Designed and built an automated testing solution from scratch using Mocha and Chai.js increasing code coverage from 0% to over 60%.
- Took on DevOps responsibility by setting up CI/CD, Kong API Gateway and managing IoT devices over the cloud through Balena.

Projects & Skills

DAMN - SSH Keys Distribution and Management Network

SKILLS: GOLANG, GIT, DATABASE MANAGEMENT, SERVER MANAGEMENT, SHELL SCRIPTING, OAUTH, API DEVELOPMENT, ORM

- Developed web application for securely requesting, granting and revoking access to servers on the go by managing SSH keys of all node servers through a central server with the provided web portal.
- Engineered backend using Golang while working with various web APIs, OAuth protocol, scripting and databases technologies.

Golang Compiler

SKILLS: COMPILER DESIGN, DATA STRUCTURES, ALGORITHMS, C/C++, FLEX, BISON

- Developed a partial compiler(lexical analyzer) with error reporting and error recovery for Go(Golang) programming language.
- Created an additional web application for end-to-end demo of the compiler.

Task Queues Implementation

SKILLS: PYTHON, FLASK, RABBITMQ, CELERY, SQL, DOCKER, DOCKER-COMPOSE

- Since uploading large data sets handicaps the server to process further requests, used Celery to implement task queues with RabbitMQ as the broker so as to allow the uploading of data sets to be an asynchronous task with the option to check the status and revoke task.

FIFAWC – CLI App

SKILLS: GOLANG, BASH, API INTEGRATION

- Developed a Command Line Interface (CLI) app using Golang and web APIs to track the FIFA World Cup 2018 by getting live scores, fixtures, team details and other statistics right from the terminal.