Shivangi Kakkar

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EDUCATION

State University of New York at New Paltz — New Paltz, NY
Master of Science in Computer Science, Academic Excellence Awardee, Grade: 4.0/4.0 — Jan. 2021 – Dec. 2022

Mody University of Science and Technology — Rajasthan, India
Bachelor of Technology in Computer Science and Engineering — Aug. 2014 – May 2018

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL - PostgreSQL/MySQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Vue.js, Flask, FastAPI, Tensorflow, Torch
Developer Tools: Git, Docker, Kubernetes, CircleCI, AWS, Azure
Certifications: Microsoft Certified - Azure Fundamentals

EXPERIENCE

Data Analysis and Digital Marketing Intern — Dec. 2022 – Present
Reflection Group — *Columbus, OH*

- Build website and linked in profile for Reflection Group, conduct marketing campaign on LI, build LI posts for reflection group
- Analysis and rationalization of Master Data (Customer, Supplier, Product) for data migration for an ERP implementation

Graduate Teaching Assistant — Aug. 2021 – Dec. 2022
State University of New York at New Paltz — *New Paltz, NY*

- Mentored students, facilitated laboratory activities, and graded exams/assignments for courses such as CS I, CS III (Advanced Data Structures in Java), Database Management, and Introduction to UI/UX

Full Stack Developer Intern — Jul. 2022 – Sep. 2022
MoodConnect — *Remote from New Paltz, NY*

- Designed, developed, and integrated new front end components into the existing codebase
- Created APIs to facilitate data exchange between the front-end, the relay service, and the core ML model

Privacy and Security Engineering Intern — Dec. 2018 – Mar. 2019
Mozilla — *Remote from Tokyo, Japan*

- Triaged issues, deployed bug fixes, and implemented new features for Firefox Containers Add-ons impacting 435k daily active users and over 1.8MM total users
- Analyzed demand, calculated implementation cost, and prioritized resolution and enhancement for deployment of Firefox Multi-Account Containers extension
- Coded the visual user interface of the Firefox Facebook Container add-on and developed a Web Extension API for blocking Facebook sub-resources in Javascript

PROJECTS

Modeling Climate Change using Big Data and Machine Learning — Aug. 2021 - Dec. 2021

- Setup pipeline for ingestion and distributed storage of large amounts of publicly sourced historical climate data (MapReduce implementation) on Apache Hadoop
- Creating wrapper classes on standard libraries for creating, training, and testing assorted ML algorithms (xgboost, lightgbm, Tensorflow)

ML based Sudoku Solver (Slides) | *Python, numpy, OpenCV, Tensorflow* — Jan. 2022 – May 2022

- As a part of the curriculum for my AI course, created a ML based Sudoku Solver in Python
- Core solver engine used DFS and backtracking to solve more than 1M puzzles in 5ms each
- Used OpenCV and Tensorflow to build and integrate module to read puzzles from images
- Successfully integrated all modules with options for text/image inputs and 3 solving techniques