Akhil Manchikanti

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ — Expected May 2021
Master of Science in Computer Science. GPA: 3.79/4
Relevant Courses: Algorithms, Database Management Systems, Web Programming

Visvesvaraya Technological University, India — Jul 2016
Bachelor of Engineering in Information Science
Relevant Courses: Data Structures, Computer Networks, Operating Systems, Software Engineering

Coursera
Princeton University, Algorithms Part-1

TECHNICAL SKILLS

Programming Languages	: Java, Python
Scripting Languages	: SQL, PowerShell
Web Technologies	: HTML5, CSS, JavaScript, Bootstrap, NodeJS, Express, ReactJS, Redis, GraphQL
Database	: PostgreSQL, MongoDB
Tools	: Visual Studio Code, PyCharm, IntelliJ, Eclipse

EXPERIENCE

WW (formerly Weight Watchers) – Software Engineer Intern — Jun 2020 – Jul 2020

- Developed technology asset inventory system for tracking infrastructure consumption, user entitlement and licensing using **NodeJS, Express, MS-SQL, Bootstrap**.
- Designed and implemented Software License Management Alerting System using **Python**, 3rd party software APIs which saved manual efforts and made capacity planning more efficient.
- Built an **NLP** based classifier model to classify Jira tickets based on its summary and description.

Capgemini – Senior Software Engineer — Aug 2016 – Jul 2019

- Developed monitoring scripts using **Python** and **PowerShell** to reduce manual efforts by **8-16 hours** per week.
- Automated the new user onboarding process which **saved 40 hours** a week and **improved the response time by 75%**.
- Developed report generation scripts which **saved 1,000 man-hours** annually.
- Developed server monitoring scripts with regular schedules.
- Created and maintained the client's infrastructure on **Azure**, **VMware**, and **Hyper-V** hosts.

ChalkStudio – Product Engineering Intern — Jul 2015 – Aug 2015

- Performed statistical analysis of page visits, bounce rate, IP filtering using **Google Analytics**.
- Generated dashboard metrics and stats based on the requirements using **Query Explorer**.

PROJECTS

Artsy - Web app for meeting backgrounds

- Developed a **SPA** using **MongoDB, Express, React, NodeJS** for users to share and download backgrounds for video calls.
- User login through Google and Facebook was done using **firebase** and the backend was written in **typescript** for static typing.

N-puzzle Solver

- Developed a **Java** program to solve 8-puzzle problem using **A* search algorithm** and Manhattan distance.
- Enhanced above program for solving N-puzzle, and find unsolvable boards.

Percolation Threshold Calculator (using Monte-Carlo Simulation)

- Modeled and designed a percolation system applying Monte-Carlo Simulation technique in **Java**.
- Developed metrics calculator to determine mean, standard deviation of percolation threshold and the confidence interval.

Amazon Clone

- Designed a web interface for an online grocery store using **NodeJS**, **Express**, **MongoDB** and **Bootstrap** with features such as wish list, order tracking, billing system, product search and category search.

Student Repository

- Created a web portal using **Python** and **Flask** where students can track their GPA, required, and completed courses.

Research paper classifier model

- Used Beautiful Soup **Python** library to scrape metadata of research papers from a set of URLs.
- Built a classifier model that predicts the conference name for a given research paper.