PRANJAL KAMLESH PAREKH
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EDUCATION

Binghamton University, SUNY, Watson School of Engineering **August 2018 - May 2020**
Master of Science in Computer Science **GPA: 3.23/4.00**
MCT Rajiv Gandhi Institute of Technology; Mumbai University **August 2013 - June 2017**
Bachelor of Engineering in Computer Engineering **GPA: 7.17/10.00**

TECHNICAL SKILLS and COURSES

- **Databases**: MongoDB, PL-SQL, MySQL
- **Programming Languages**: JAVA, HTML5, CSS3, C, C++, JavaScript, JQUERY, PHP, NodeJS, Bootstrap, Python
- **Networking**: TCP/IP stacks, DNS, VLAN, DHCP, Protocols, VPN, Routing
- **Tools and Frameworks:** ExpressJS, ReactJS, Unity, MustacheJS, AWS EC2, Git, Slack, GitHub, ANT, Docker, JIRA

Technical Courses: Programming for the Web, Designing and Analysis of Algorithm, Design Patterns, Computer organization and Architecture, Operating Systems, Artificial Intelligence

PROFESSIONAL EXPERIENCE

AgZeit LLC ValuAg, LLC, Binghamton, New York
Application Developer **June 2019 - August 2019**

- Built an app named Talks Tours Travel for a local startup company which directly connects locals to travelers
- Optimized, maintained and enhanced app's UI and art style guide using Unity software
- Implemented a CI/CD pipeline to allow one-step builds and deployments with integration testing of software
- Ensured quality, order and proper documentation of the code, following project architecture and the programming standards, even in code debugging process
- Boosted efficiency by 25% by eliminating bugs in development and production phase and resolving memory leaks
- Coordinated and managed cross-functional teams in an Agile SCRUM environment by visually documenting the workflow for team transparency and removing bottlenecks

PROJECT EXPERIENCE

Smart Search Engine **August 2019 - December 2019**

- Designed and coded a smart search web application that reads and retrieves data from various JSON files stored in MongoDB using JavaScript, NodeJS and ReactJS
- Developed web services for handling requests and responses using ExpressJS and MustacheJS template system for rendering views of various HTML forms on both client as well as server

Dictionary using Red Black trees, AVL Trees and Skip Lists **January 2019 - May 2019**

- Explored the implementation of Dictionary with Red black trees, AVL trees and Skip Lists for the primary functions such as insert, delete and search using core Java programming techniques
- Performed comparisons between data structures and determined which of these gives the best results in terms of memory and processing time while taking into consideration the difficulty of implementation

Pacman **January 2019 - May 2019**

- Modeled an artificial intelligent behavior for the game of Pac-Man which focused on AI concepts, such as informed state-space search, probabilistic inference, and reinforcement learning
- Compared and evaluated different aspects of artificial intelligence and experimented with the parameters to have insights on their benefits and limitations

APEX Pipeline Simulator for CPU **August 2018 - December 2018**

- Programmed a simulator in C for in-order and out-of-order execution of assembly instructions in CPUs
- Performed cycle-by-cycle execution applying concepts of Data forwarding, Register renaming, Load Store Queue, multiple Functional Units, reorder buffers and issue queue

Sentiment Analysis on Twitter data **August 2016 - April 2017**

- Investigated a paradigm to mine the sentiment from the real-time microblogging service, Twitter
- Proposed a hybrid approach applying both corpus-based and dictionary-based methods to determine the semantic orientation of the opinion words in tweets
- Ensured 100% latency and throughput by managing real-time processing of data and maintaining database loading and retrieval

Reaction Tester Game **January 2016 - March 2016**

- Designed a project in JavaScript in which different shapes appear on the screen and are also positioned anywhere on the screen to evaluate how fast a user can click on the shape and calculating time it takes to click

LEADERSHIPS AND INVOLVEMENT

- Awarded Scholarship from Narotam Sekhsaria Foundation promoted by Gujarat Ambuja Cement for four years 2013-2017 for being in top ten students from Class XII in schools
- Passed the intermediate National Mathematics Olympiad Contest with Distinction
- Led volunteers in a beach cleanup drive to contribute in "Swach Bharat Abhyan"