Pranav Nachanekar

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EDUCATION

Master of Science, Computer Science, George Mason University   **Aug 2021 — May 2023**
GPA: 3.70/4.0
Projects:

- Implementation of a multi-threaded C program to simulate a traffic light
- Implementation and deployment of a multi-threaded C program to control a smart lock using NFC keycards
- Design and development of a normalized relational database system for learning management system
- Built a firewall program for Free-BSD using C and divert sockets
- Deployment of highly available Java web application using Kubernetes
- Built a DNS query resolver with DNSSEC chain of trust validation using Python and pyOpenSSL
- Quantitative Analysis of Inter Point Cloud Compression techinque using C++ and automation of the same using Bash scripts
- Implementation of TCP congestion control and delivery guarantees over UDP using a Python program
- Implementation of multi-process Distributed Distance Vector algorithm

Bachelor of Engineering, Computer Engineering, University of Mumbai   **July 2015 — May 2019**
GPA: 6.45/10.0
Projects:

- E-Commerce Platform using PHP and Laravel
- Semantic Analysis of questions to find similar questions on a Question and Answer forum

EXPERIENCE

Research Assistant,   **December 2021 — January 2023**
Computer Science Department, George Mason University   Fairfax,VA

- Developed an Android app using Kotlin to collect data from Bluetooth Low Energy wearable device , integrated of proprietary Java libraries as well as consuming Google Drive API using Retrofit. Uses SQLite for temporary storage of data, writing to CSV file using FileProvider API.
- Visualization and analysis of collected bio-metric data using Python, pandas, ggplot and numpy
- Inter-modal mapping of visual and radar data using the Microsoft Azure Kinect Development Kit

Engineer   **July 2019 — Feb 2020**
frappe.io   Mumbai

- Spearheaded the development of an appointment scheduling functionality for managing customer relations
- As the direct responsibility individual of the Customer Relationship Management and Sales modules closely collaborated with other developers to seamlessly integrate new functionality at an inter-module level.
- Debugging and refactoring legacy code as well as reviewing open source contributions
- Continued development and debugging of internal web framework using Python and JavaScript
- Development of test recording environment based on the Cypress testing framework, allowing non-technical users to write tests using GUI. Increased test's code coverage by 10%.

Software Developer Intern   **October 2018 — June 2019**
Nimap Infotech   Mumbai

- Development of a Contact Card scanner and organizer multi platform application using NodeJS, Angular, Express and MongoDB.
- API documentation using Doxygen for NodeJS.
- Authored the SOP for developing and documenting REST APIs company-wide.
- Application deployment using AWS EC2 and RDS.
- Contributed to the development of iOS app for existing IoT project, enabled locking, unlocking and logging of devices based on user's proximity to a Bluetooth LE beacon.

Freelance Developer   **August 2017 — October 2018**
Self-employed   Mumbai

- Development of multiple portfolio, e-commerce and landing page websites using WordPress
- Development of custom WordPress plugin for image optimization
- Development of multiple portfolio and landing page websites using HTML, CSS and JavaScript and hosting using AWS LightSail

Skills

Python	Flask, Django, Frappe Framework, Socket Programming
Web Development	HTML5, CSS3, TypeScript, JavaScript, NodeJS, Express, Angular, React
Android	Java/Kotlin, Flutter, Retrofit, Activity Lifecycle, Bluetooth LE
Databases	MariaDB, MySQL, MongoDB, Redis, SQL Adminstration, Amazon RDS
Developer Tools	Git CLI, VSCode, Docker, Kubernetes, Bash Scripting,

Contact

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