Nimai Patel

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EDUCATION

D.J. Sanghvi College of Engineering   2019 - 2023 (expected)
- B.Tech IT Engineering with average CGPA of 9.37/10 over 6 semesters

Pace Junior Science College   2017 - 2019
- HSC Science with 76.15% score

D. G. Khetan International School   2017
- 7 IGCSE subjects with overall A* grade (93.29%)

SKILLS

Programming Languages
- C, C++, UNIX shell script, Python, JavaScript, Haskell, Lua, LaTeX, Solidity

Tools
- Git, Linux, UNIX and GNU core utilities, Vim, gdb, Hadoop

Web and Mobile Development
- JavaScript, React, Node.js, Flutter and Dart, MongoDB, PostgreSQL, Web Sockets, RESTFful APIs

Blockchain Development
- Ganache and Truffle suite, Ethereum Development using Solidity

EXPERIENCE

Embedded Systems Engineer at Meshnet Electronics   Since March 2022
- Implemented over-the-air updates, NTP time syncing, remote configuration, serial configuration
- Designed all components with minimal coupling so that they could be put into any project with little effort
- Conducted testing efforts which included range testing, sensor calibration and OTA reliability testing

BAS and SOC developer at Tata Advanced Systems Limited   August 2021 - September 2021
- For my Senior year capstone project, I am developing a breach attack simulation software and security operations center for Tata Advanced Systems Limited
- drafting a review paper about existing BAS systems and will be submitting it to 9th Somaiya International Conference on Technology and Information Management

SOC Analyst Intern at RNS Technology   August 2021 - September 2021
- This is my sophomore year summer internship at RNS Technology which is a cyber security firm
- Learnt about system and organization control operations and how these repetitive tasks can be automated

EXTRA CURRICULAR ACTIVITIES

Conducted lectures for Operating Systems Course
- Taught classes of 60+ students each about Unix shell scripting, terminal commands, virtualization and automation under guidance of Prof. Sharvari Patil

Technical Head of Computer Society of India at College   December 2020 - August 2022
- Mentored a team of 5 sophomores in various projects that we take up for the college's CSI chapter
- Maintained and developed the various websites and server side software that CSI uses

Instructor at Competitive Programming Club
- Organized and conducted lectures for freshmen students
- Covered basics of C programming and taught concepts like for-loops, if-else statements, arrays, and introduced beginner competitive programming problems

Technical Team Member at Literature Society
- Automated routin server tasks and maintained the CMS based website
- Organized literature related events and handled technical aspect of online events during the COVID-19 Pandemic

PROJECTS

Rideshare - a decentralized ride-hailing system
- Rideshare is a decentralized ride-hailing system that runs on Mobile devices
- It uses the *Ethereum* block chain and *Interplanetary File System* to decentralize the process of booking a cab to minimize the involvement of middle-men
- Authored a paper on the same and submitted to 4th IEEE Bombay Section Signature Conference. The paper is accepted for oral presentation and will be published in IEEE Xplore.
- Repository link: https://github.com/nimaipatel/ipd

brn
- This is a text editor based bulk rename utility written in C for GNU/Linux, it lists all the file names in a text buffer from where they can be easily bulk renamed using advanced editing capabilities
- Compared to similar programs written in scripting languages, brn can handle name swapping using GNU/Linux's renameat2 system call
- Repository link: https://github.com/nimaipatel/brn

dwm, st and dmenu
- These are my forks of C-based X11 window managers and terminal emulators, patched with features such as on-the-fly configuration changes using UNIX signals
- Repository link: https://github.com/nimaipatel/st

Official Website of College's CSI Student Chapter
- This is a static site generated using React based components
- The site is running at: https://djcsi.co.in

Leaving Certificate and Railway Consession generation system
- Used by students of the college to request railway concession from the college and generating leaving certificates
- Web client made using React and Firebase real-time database

FindIt – A Lost & Found Management tool
- This was my team's submission to CSI's hackathon
- Project repository: https://github.com/nimaipatel/findit

StackReview – A code review website
- This was my team's submission to OAuth's 2020 Hackathon
- Project repository: https://github.com/stackreview