Neil Fernandes

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EDUCATION

PES University   Bangalore, Karnataka
Bachelor of Technology in Computer Science and Engineering   *Dec. 2020 – May 2024*

- **Coursework:** Data Structures and Algorithms in C/C++, Operating Systems, Database Management Systems, Machine Intelligence, Computer Networks and Security, Web Technologies, OOAD in Java, Python Programming, Statistics for Data Science, Digital Design and Computer Organization, Microprocessor and Computer Architecture, Human Computer Interaction, Blockchain, Cloud Computing and security, Software Testing, Software Engineering, Design of IoT solutions, Automotive Security

Ramaiah Polytechnic   Bangalore, Karnataka
Diploma in Computer Science and Engineering —(Distinction)—   *Aug. 2017 – May 2020*

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL (MySQL), JavaScript, HTML/CSS
Design: Sketch, Figma, Adobe XD, Adobe Photoshop, Adobe Illustrator
Frameworks: React, Node.js, WordPress, Material-UI, Flutter
Developer Tools: Git, Docker, Google Cloud Platform, AWS, VS Code, PyCharm, Jenkins
Libraries: pandas, NumPy, Matplotlib

PROJECTS

Stem (Patent Pending) | *Python, Google Cloud Vision, YOLOv8, Arduino, ESP32*   January 2023 – March 2024
- Developed a head-mounted device designed for visually impaired individuals. The device uses onboard cameras to provide real-time feedback about the user's surroundings.
- Integrated object recognition capabilities through Google Cloud Vision and the YOLOv8 model, allowing the device to detect and identify objects in real-time with high accuracy.
- Developed a stereo vision algorithm tailored for the ESP32CAM to provide depth perception, enabling the device to calculate the distance to detected objects.

Echevion | *React.js, Node.js, HTML, CSS*   May 2023 – June 2023
- Developed a web-based recommender system designed to match creative professionals with potential employers based on preferences, utilizing the Gale-Shapley algorithm for optimal pairing.
- Reached the top 10 teams at DotSlash 4.0 hackathon.
- Designed the front end and user interface development using React.js.

Kano | *Flutter, Dart, Git, Jenkins*   June 2022 – December 2022
- Developed a text editor for Android using Flutter, providing a smooth and responsive user interface that followed Material Design principles, aimed at enhancing the text editing experience on mobile devices.
- Integrated multi-language support and advanced syntax highlighting for popular programming languages, allowing users to efficiently code directly on their Android devices.
- Built a robust CI/CD pipeline using Jenkins, automating the process of building, testing, and deploying the application.

ShoeShop | *Node.js, React.js, MongoDB, Express.js, HTML, CSS*   January 2022 – March 2022
- Built a fully-fledged sneaker shopping e-commerce platform using the MERN stack.
- Implemented a inventory management system to automatically track stock, manage products etc.
- Integrated payment gateways using Stripe and PayPal.
- Developed an admin dashboard to allow administrators to manage products, monitor customer orders, and control inventory levels in real-time.

EXPERIENCE

Software Engineer Intern   December 2019 – March 2020
BlueSquare IT   *Bangalore, Karnataka*
- Developed a Java-based data processing application, reducing processing time by optimizing system performance in UNIX/Linux environments and integrating software testing tools for quality assurance.
- Collaborated on architecting a scalable backend, boosting system performance and improving the user experience.