Nitin Arul

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GitHub | Linkedin

Education

BITS Pilani <div align="right">Goa</div>

B.E. Electronics and Instrumentation & M.Sc. Economics <div align="right">August 2019 - June 2024</div>

Experience

Standard Chartered | Technology Intern <div align="right">Chennai, India | July 2023 - December 2023</div>
- Created a POC for Containerizing Classic Java Banking Applications.
- Developed an internal Java tool to automate regression testing.
- Wrote and utilized Python automation Scripts to help migrate from one platform to another.

Batton Inc. | Infrastructure and Backend <div align="right">Tokyo, Remote | May 2023 - July 2023</div>
- Successfully implemented and built the foundational infrastructure environment for the system.
- Wrote the backend system using Flask, Elasticsearch, Langchain and Firebase
- Overcame challenges in integrating Elasticsearch and dense-vector technologies.
- Deployed the complete backend on kubernetes and demonstrated a complete workflow.

BITSkrieg | Chief Coordinator <div align="right">Goa, India | August 2019 - August 2022</div>
- Handled a university cybersecurity club consisting of 50+ students.
- Responsible for conducting and hosting CTF's (intra college and inter college)
- Mentored Students on cybersecurity concepts (Network & Web Application Security)

Aswan International | Full Stack Intern <div align="right">Dubai, UAE | March 2021 - June 2021</div>
- Developed a platform for data entry and management using NodeJS, React and SQL server.
- Ensured Efficient Data Handling with NodeJS.
- Implemented a Dynamic User Interface with React.
- Handled file uploading for forms on frontend and backend.

Skills

Programming Languages:	JavaScript, Java, Python, C++, Rust, C, Java, Bash
Libraries/Frameworks:	NodeJS, Django, React, Flask, FastAPI
Tools / Platforms:	AWS, Nginx, Docker, Podman, Burpsuite, Ghidra, Kubernetes, GKE
Databases:	MongoDB, PostgreSQL, MySQL, Microsoft SQL, Firebase

Projects

Padh.ai Product MVP | Link <div align="right">*NodeJS, React, Auth0, Heroku, JWT*</div>
- Padhai is a platform where students can solve our questions and we leverage NLP technology and semantic search to help improve their performance.
- The platform was built on MERN stack and was successfully deployed on heroku for a poc.
- Performed analytics on user's performance to help them improve their performance and gave a report

Asset Discovery | Link <div align="right">*NodeJS, Elastisearch, SSHuttle, Bash, Active Directory, Nmap*</div>
- Built this tool when I participated in Grid 3.0 (Hackathon organized by Flipkart)
- Made use of SSH Tunnels to scan remote networks and discover devices, segregate them by OS, Domain Name, Workgroup and MAC Address

Data Entry Management System | Link <div align="right">*ReactJS, NodeJS, Microsoft SQL server*</div>
- Made a data entry platform from ground up that supported text and image data.
- Utilized NodeJS and an ORM to interact with Microsoft SQL to ensure smooth CRUD operations.
- The tool helped boost productivity in the workplace by making accessing documents easier for everyone.

Certifications, Volunteering

- Certificate in Network Management - **Nettech**.
- AWS: Going Cloud Native - **Coursera**
- QSTP Mentor - **Cybersecurity**.

Honors & Awards

Grid 3.0 Hackathon Finalist (Top 17 teams among 6000+ teams)