

# Durgesh Nandan

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## SKILLS

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**Languages:** Java, Python, C, C#, JavaScript, HTML5, CSS3, Typescript, XML, SCSS, LESS, PHP  
**Frameworks:** React, Angular, ExpressJS, Node.js, MEAN, MERN, Flask, Android, Material-UI, REST API, Redux, JQuery, Next.js  
**Databases:** MySQL, Oracle 11G, SQLite, MongoDB, DynamoDB, Redshift, PostgreSQL, Cassandra  
**Blockchain Technologies:** Web3, Ethereum, Smart Contracts, Solidity, Cryptocurrency, Truffle, Ganache, Metamask  
**Cloud:** Google Cloud Platform, AWS, Firebase  
**Developer Tools:** Docker, Kubernetes, Terraform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Mocha  
**Control System, Documentations and UI Wire-framing:** Git, Jenkins, Jira, Confluence, Asana, Zeplin, Figma, Adobe XD, Sketch  
**OS:** Windows, Linux(RedHat, CentOS), macOS  
**Miscellaneous:** Public Speaking, Communication, Problem Solving, Leadership, Time Management, Conflict Resolution

## EDUCATION

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**University of Birmingham** Birmingham, UK  
*Master of Science in Advanced Computer Science* Sept. 2023 – Sept. 2024  
*Modules: HCI, Dependable and Distributed Systems, Algorithms, Mobile Computing, Computer Vision*

**Visvesvaraya Technological University** Belagavi, IN  
*Bachelor of Engineering in Computer Science and Engineering* Aug. 2016 – Aug. 2020  
*Significant Modules: Data Structures, UNIX, OOPS Java, DBMS, Machine Learning, Big Data, Python Programming*

## EXPERIENCE

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**Senior Software Developer** June 2023 – Aug. 2023  
*Quantiphi Analytics* Bangalore, IN

- Designed and engineered an **RDP (Remote Desktop)** service catering to **Nvidia** and **ICI** team requirements, facilitating remote machine management in geographically isolated client locations across 6 continents.
- Introduced **AWS Services** (e.g. API Gateway, IOT Core, OpenSSH) and the **MEAN** Stack for the development of this solution.
- Notably, Completed the project ahead of schedule, allowing for a buffer of approximately two months for thorough multi-stage testing and any ad-hoc modifications.

**Full Stack Developer** Apr. 2022 – May 2023  
*AXIO Finance* Bangalore, IN

- Spearheaded the design and development of the **Tata Pay Later Front-end**, managing traffic due to a **large customer base**.
- Integrated significant contributions to the **UI/UX** and feature enhancements for **Amazon Pay Later/AXIO** to maximise user engagement by **20%**.
- Led **re-branding** efforts for Front-end during the transition from **Capital Float to AXIO**, along with migrating 2 codebases to latest versions

**Software Engineer** July 2020 – Apr. 2022  
*Synamedia* Bangalore, IN

- Created, developed, and rigorously tested an **Automatic Notice and Takedown System** aimed at detecting and addressing pirated content across OTT, DTH, and other platforms. This involved sending legal notices in stages of escalation for persistent offenders.
- Formulated and tested a comprehensive product from the ground up, exploiting **MERN/MEAN Stack**.
- Devised the back-end server and **REST APIs**, leveraging **NodeJS** and **ExpressJS**, while maintaining API documentation through **Swagger**.
- Employed **Docker** for containerising full-stack applications, ensuring swift builds and cloud deployment.
- Transformed wire-frames and prototypes into visually appealing and user-friendly web applications.

- Executed rigorous multi-stage testing encompassing diverse scenarios, utilising test beds and stubs, and organised test documents within Confluence with **98% code coverage**.
- Gathered and comprehended business requirements from clients and colleagues, proceeding to design, develop, and maintain versions and releases.

## Trainee

Jan. 2020 – July. 2020

### RoadMetrics

Bangalore, IN

- Facilitated to the development of a road assessment platform for government entities and city councils, resulting in a **50%** increase in customer acquisition. Played key role in creating a navigation app for individual consumers, which garnered over **1,000 downloads** and allowed users to select routes based on **optimal road conditions**.
- Designed and deployed modules in multiple technologies, including UI/UX design, microservices, and APIs, utilising AWS Lambda, S3, RDS, Android Application Development, Tensorflow, WebStack, Python Modules, and Single Page Applications with the **MEAN** stack.
- Conducted application testing to uncover and address technical problems such as **ANR** (Application Not Responding) issues and crashes.
- Assumed responsibility for release management on **Google Play Store** and the ongoing maintenance of cloud infrastructure.

## PROJECTS

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### Orca | *Mongo DB, Express JS, React, NodeJS, AWS, Google Analytics*

- Developed a **Analytics Website** as a personal project that can identify and address pirated content across OTT, Telegram, and other social media sources.
- Generates trend graphs and other analytical metrics for users to analyse and create report.
- Implemented an experimental feature enabling the scheduling of cron jobs to send routine emails. Initially designed the email content in HTML on the server, subsequently parsing and delivering.

### MedApp | *Java, Android, AWS, Firebase, GCP*

- Developed a mobile application enabling victims and nearby citizens to send emergency alarm messages swiftly.
- Implemented real-time location tracking to identify the nearest healthcare providers, including ambulances.
- Enabled notifications to be sent to nearby healthcare workers, requesting assistance during emergencies.
- Included a feature offering first aid tips for immediate support during crisis situations.

## ACHIEVEMENTS

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**Winner, HCI Design Challenge:** Won Human Computer Interaction Design Challenge of **University of Birmingham** School of Computer Science event, among **70 Participating teams**

**Finalist, TechGig Code Gladiators 2021:** Advanced to the final round of the event, earning a spot in the **top 100** contenders from a pool of **400,000 participants**.

**Winner, Smart India Hackathon 2020:** Secured victory in the Smart India Hackathon 2020 - Software Edition, emerging as the winner among more than **35,000** participating teams in the **Government of India** organised three-day hackathon.

**3rd/100, Google I/O Extended AppDev Hackathon 2018:** Achieved a notable **third-place** ranking among **100 teams** at the 2018 Google I/O Extended AppDev Hackathon.

**HackerRank:** Resolved more than **100 problems** on HackerRank across multiple programming languages, while also achieving **gold badges** through participation in competitions and practice.

## CERTIFICATIONS

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**Blockchain Specialisation:** Udemy

**MERN Specialisation:** Hong Kong University of Science and Technology(Coursera).

**AWS Fundamentals:** Coursera.

**MEAN Specialisation:** Udemy.

**Python:** University of Michigan(Coursera).

## PUBLICATIONS

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**Replication Schemes in Java for Fault Tolerance:** Medium:

<https://medium.com/@durgnan45/replication-schemes-in-java-for-fault-tolerance-94684f2b652b>