

Darshil Dhiraj Chheda

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TECHNICAL SKILLS

Languages: Python, Java, C, C++, C#, Bash (Shell Scripting), Dart, JavaScript, PHP, Kotlin, HTML, CSS, Objective-C, Swift, UNIX
Frameworks: React, Spring Boot, Node.js, Express.js, Three.js, Tailwind CSS, MVVM, Flutter, Android, React Native, Maven, Angular, Figma, Flask
Databases: PostgreSQL, MySQL, Oracle DB, MS SQL Server, MongoDB, Firebase, Cassandra, Neo4j, NoSQL
Cloud/DevOps: AWS(S3, EC2, RDS, IAM, Lambda), Kubernetes, Jenkins, Docker, JIRA, Git, CI/CD, Microservices

WORK EXPERIENCE

Indiana University | Graduate Research Assistantship | Bloomington, Indiana May 2023 – Present

- Employed scrum agile development of 3 **healthcare apps** funded by the National Institute of Health (NIH) increasing user interface accessibility by 60% based on feedback. Engineered fault-tolerant, highly available, large-scale distributed systems, ensuring 99.9% uptime.
- Led design and development of an **AI-Powered chatbot app**, LOLA, for ADRD support to African American community enhancing user interaction and attracting over 10,000 queries.
- Engineered app using Flutter, Objective-C, Java (Object-Oriented programming), PostgreSQL, **GPS-based event updates** and Google Search API for event data retrieval, resulting in 98% crash-free rate, and provided valuable analytics to further tailor user experience.

Daxy – The Digital Taxi | Software Developer | Mumbai, India | [Google Play Store](#) Jun 2020 – Dec 2021

- Developed a **B2B e-commerce app** for diamond customization sales, enhancing vendor offerings with custom UIs, resulting in a 40% increase in client product listings of order personalization. Authored clear and scalable design documentation.
- Elevated inventory management efficiency by architecting a responsive, full-stack e-commerce website with a customizable CRUD-based Admin backend, reducing product catalog control efforts by 35%.
- Enhanced security of online transactions by integrating Stripe payment gateway and implementing user authentication, resulting in a robust system with a 99% reduction in fraudulent activities.

Ocean Transworld Logistics | Software Developer | Mumbai, India Jun 2019 – May 2020

- Managed creation of Java based Android app and Firebase, leading to a 50% reduction in paper usage and a 20% cut in wage loss by digitalizing expense records and automating daily allowance.
- Designed a **sophisticated validation algorithm**, resulting in 30% decrease in financial errors, and developed an administrative web portal improving efficiency of expense monitoring and employee tracking by 25%.

PROFESSIONAL PROJECTS

How Can Disney+ Widen Subscriber Base? | [GitHub](#): Oct 2023 – Dec 2023

- Initiated **data analysis** of over 1800 titles from Disney+ database and performed **web scraping** on IMDb to evaluate content strategy and provide actionable recommendations to optimize subscriber growth.

Stress Data Collection | [GitHub](#): Mar 2023 – May 2023

- Engineered an NIH-funded stress management app with Java and GPS integration, achieving a 35% enhancement in location-based insights and distress index tracking.

ShopNow – Ecommerce Application: Jan 2023 – Apr 2023

- Developed a **full-stack e-commerce website** using Express.js, MongoDB, Mongoose, Stripe, React, Redux, and Node.js, improving inventory management by 35% and reducing fraudulent activities by 99%.

3D Object Scroll: Sep 2022 – Dec 2022

- Pioneered an innovative 3D animated React website using WebGL, Three.js, and Tailwind CSS, enhancing visual experience and reducing bounce rate by 25%.

Food Delivery App | [Google Play Store](#): Nov 2020 – Apr 2021

- Launched a food delivery app for office working people, combining a payment method, and enabling access to homemade meals, resulting in a 30% increase in regular customer subscriptions and a 50% boost in vendor participation.

Kid's Story Telling App | [Google Play Store](#): Sep 2020 – Oct 2020

- Directed development of a Flutter-based storytelling app with text-to-speech, targeting entrepreneurial mothers' children, achieving a 45% increase in user engagement, and filling a specific market niche.

EDUCATION

Master of Science – Computer Science Specializing Cybersecurity GPA: 3.80 / 4.00

Indiana University, Bloomington, Indiana, USA Jan 2022 – Dec 2023

Bachelor of Engineering – Computer Engineering GPA: 3.70 / 4.00

University of Mumbai, Mumbai, Maharashtra, India Aug 2016 – Oct 2020

ACCOMPLISHMENTS

- Certifications:** Ethical Hacking, Shell Programming / Scripting, Kali Linux Essentials, Flutter Mobile App & Web Development.
- Secured top-10 position for building a Chatbot solution in **Global DefTech Hackathon 2020**.
- Led 2 seminars on **Cryptography** & Applied Algorithms as **Graduate Associate Instructor at IU**, boosting students' academic performance.
- Published & Copyrighted IEEE Technical Paper:** [Cashless Employee Expense and Transacting System](#) | SSRN, Elsevier.