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, MVVM Architecture, 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, GitHub, CI/CD, Microservices.
Cybersecurity Skills:	Wireshark, Firewalls, Malware Analysis, Vulnerability Management, Network Security, SIEM, Cloud Security, Debugging, Testing, TCP/IP, DNS, DHCP, Routing / Switching, IAM, IDA PRO, Ghidra, Metasploit.

WORK EXPERIENCE

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

- Piloted agile development and CI/CD processes of three transformative medical apps funded by the National Institute of Health (NIH), elevating healthcare accessibility by 60% and revamping patient outcomes and user interface accessibility.
- Integrated GPS and heart rate monitoring into a stress management app, enhancing user engagement and reporting accuracy by 20%. Pioneered an Alzheimer's chatbot utilizing LLM, leading to a 40% uptick in user interactions and improved performance.

Indiana University | Graduate Associate Instructor | Bloomington, Indiana — Aug 2022 – May 2023

- Orchestrated and tutored sessions on Applied Algorithms and Cybersecurity Mathematics, enabling students to grasp intricate concepts and excel in computational and mathematical tasks.
- Conducted seminars on Cryptography, DES, AES, and Cipher techniques, deepening students' grasp of cybersecurity nuances.

Daily Dash Coop. | Software Developer | Mumbai, India | Google Play Store — Nov 2020 – Apr 2021

- Spearheaded agile engineering of a food delivery e-commerce app with Flutter, leveraging API Integration and CI/CD pipelines for timely and seamless updates, ensuring an 80% household reach and feedback-driven enhancements with image caching.
- Initiated and drove frontend UI enhancements, drawing on Swift and Java expertise, culminated in a 65% increase in application stability and enhanced user interface experience.

Daxy – The Digital Taxi Inc. | Junior Software Developer | Mumbai, India | Google Play Store — Jun 2020 – Oct 2020

- Directed execution of two independent projects, leading to improved efficiency in software engineering, 30% reduction in package usage, and 10% cost savings. Web Services - SOAP, RESTful, JSON, HTTP. Image Caching.
- Deployed a custom B2B e-commerce application using Flutter and MongoDB, optimizing operations and fortifying client relations.

Ocean Transworld Logistics PVT. LTD. | Software Developer | Mumbai, India — Jun 2019 – May 2020

- Transitioned traditional systems to digital e-commerce platforms leveraging Flutter, realizing 70% cutback in paper expenses.
- Pioneered a route suggestion system combining AJAX, PHP, and Bootstrap, alongside an expense elevator, achieving operational efficiency with a 90% success rate and elevating sustainability efforts.

PROJECTS

Stress Data Collection | Indiana University | Technologies: API Integration, Java, Swift, PostgreSQL, Firebase, Flutter, Java | GitHub

- Implemented GPS tracking within Swift and Kotlin, achieving 40% uptick in location precision and boosting user interface interaction.
- Utilized CI/CD for software delivery, managing to roll out a frontend user-centric app, leading to a 30% surge in user engagement.

Kid's Story Telling App | Naaniz Inc. | Technologies: Flutter, Dart, Firebase, GitHub, API, Kotlin | Google Play Store

- Led a team of 5, rolling out a storytelling app using Flutter, catering to kids of entrepreneurial mothers, addressing a market void.
- Crafted an intricate DB schema, resulting 50% increase in project efficiency and captivating users through novel text-to-speech feature.

COVID Live Tracker App | Technologies: API Integration, GitHub, Firebase, Flutter, Dart | GitHub

- Constructed a COVID tracking platform with Flutter, amalgamating live data from global APIs, delivering 95% real-time case insight, and bolstering community vigilance in the interface of global health crises.
- Integrated data from the World Health Organization, ensuring users' immediate reach to crucial COVID-19 intel, benefiting a community of over 10k users.

EDUCATION

Masters in Cybersecurity	**GPA: 3.79 / 4.00**
Indiana University, Bloomington, Indiana, USA	Expected Dec 2023
Bachelor of Engineering, Computer Science Engineering	**GPA: 3.70 / 4.00**
University of Mumbai, Mumbai, Maharashtra, India	Oct 2020

PUBLICATIONS

- **Flutter Package:** Screen Responsive for Mobile Applications — Oct 2020
- **Published & Copyrighted Technical Paper:** Cashless Employee Expense and Transacting System | SSRN, Elsevier — Jun 2020

ACCOMPLISHMENTS

- Certifications – Flutter Mobile App & Web Development, Kali Linux Essentials, Ethical Hacking, Shell Programming / Scripting.
- Competed in Global DefTech Hackathon 2020 and secured a position in the Top 10.