Bhavesh Ittadwar

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EDUCATION

North Carolina State University, Raleigh, NC   August 2023 - May 2025
Master of Computer Science   **GPA**: 3.89/4
Coursework: Software Security, Human Computer Interaction, Neural Networks, Cloud Computing Architecture, Design and Analysis of Algorithms, Software Engineering

Savitribai Phule Pune University, Pune, India   August 2016 - October 2020
Bachelor of Technology in Computer Engineering   **CGPA**: 8.84/10

SKILLS

Languages: JavaScript, TypeScript, Java, C, C++, HTML, CSS
Frameworks/Databases/Runtime(s): ReactJS, NodeJS, MongoDB, Sass, Express, Tailwind, Bootstrap, PostgresQL, Rest API
Tools: Apostrophe CMS, Docker, Kubernetes, OWASP ZAP, SonarQube, WebPack, Kafka, GitHub, Gitlab

EXPERIENCE

Michelin, Pune, India   December 2020 - July 2023
Digital Solution Developer I - Specialist (Full-Time)
- Orchestrated full funnel consumer program for **90,000+** Michelin **users**, seamlessly integrating Google Analytics and **Kafka** for developing the **loyalty program** increasing customer **retention** by **13%.**
- Centralized **'forms'** module, aligning with best practices cutting configuration and per-project **code** by **300 lines**, resulting in an **80% reduction** in repetitive code & revamped input fields with a modern design.
- Enhanced steppers in a multistep form widget (link), incorporating **Redux** for step switching via stepper clicks.
- Secured '**Go Getter'** award for **130% operational efficiency**, led **'Kleber'** launch, enhanced 'BFG' design, mentored trainees and delivered a highly **customizable immersive panel slider** widget (link) in a month's time.
- Revamped B2C tires site's header design along with **minimizing header setup time** for authors by eliminating 10+ configurations that were stale (link).

Michelin, Pune, India   January 2020 - May 2020
Digital Solution Developer - Intern (Full-Time)
- Built a user-friendly interface of software AG dashboard for the API portal using **Bootstrap.**
- Actively lead **cleanup** of **vulnerabilities** and bad coding practices reported by **SonarQube** for Michelin's CRM sites by eliminating on an average 3-5 incidents of dirty code/vulnerabilities each month.

Bluecoin IoT Solutions, Pune, India   June 2019 - July 2019
Web Security and Vulnerability - Intern (Full-Time)
- Evaluated and proposed solutions for **security weaknesses** in the web portal of a desk booking tool and reported **2+ severe** OWASP top 10 vulnerabilities. Built solutions using Java, SpringBoot & Hibernate.
- Generated vulnerability report for **mobile application** (link) with Quixxi tool to report **12 vulnerabilities.**

PROJECTS

Web Development
- BurnOut (link): Instilled UI responsiveness in a calorie tracker, implemented two-factor authentication, captcha verification, and Dockerized the application.

Software Security
- Executed a comprehensive security review of OpenEMR 7.02, including 15 black box test cases aligned with ASVS controls, static application security testing (SAST) using SonarQube. Achieved a total of 5 true positive vulnerabilities.
- Captcha verification bot: Engineered an automated captcha verification bot using **Java**, **Selenium**, and **Tesseract OCR** for extraction and **population of CAPTCHA** in forms. **Gauged 10+ government sites** to see if they could be bypassed.

Cloud Computing Architecture
- Cloud-Based Streaming Platform: Architected a global video game streaming platform, leveraging cloud technologies and incorporating multi-stage designs. Conducted experiments using Locust and Minikube to assess pod auto-scaling.

LEADERSHIP

- Vice-President of UI UX Tech Club at NC State - Handle organizational meetings, logistics and present educational content.
- Volunteer Tutor at Amabodh at VIT Pune - A digital literacy program.