

Vineeth Bheemreddy

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EDUCATION

MASTER OF SCIENCE IN SECURE COMPUTING, GPA: 3.7 / 4.0

Jan 2022 – Jul 2023

Indiana University, Bloomington (IUB), Bloomington, Indiana, USA

Coursework: Systems and Protocol Security and Information Assurance, Malware: Threat and defense, Security for Networked Systems, Cyber Defense Competitions, Reverse Engineering on Mobile Application Security, Advanced Operating Systems, Advanced Database Concepts

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD, INDIA

May 2013 – May 2017

Bachelor of Technology in Electronics & Communication Engineering, GPA: 3.6 /4.0

SKILLS

Languages: Java, Python, Kotlin, Swift, HTML, CSS, JavaScript.

Tools: Figma, Android Studio, Visual Studio, Git.

Frameworks: React, Springboot, Node.js, React Native.

Databases: PostgreSQL, MySQL, MongoDB.

Cloud/DevOps: AWS (S3, EC2, RDS, IAM), Kubernetes, Jenkins, Docker.

Cybersecurity Skills: Firewalls, Malware Analysis, Vulnerability Management, Network Security, Cloud Security, Resource Access Control, TCP/IP, DNS, DHCP, Routing/ Switching, IDA PRO, Metasploit.

WORK EXPERIENCE

RESEARCH SOFTWARE DEVELOPER

Sept 2022 – Jul 2024

Indiana University, Bloomington, USA

- Developed and maintained mobile applications using the Android SDK, Java, and Kotlin programming languages, contributing to a 15% increase in user engagement.
- Designed and implemented user interface components in various mobile applications, improving user satisfaction ratings by 15%.
- Developed end-to-end mobile applications, including back-end connectivity to web services and databases, which enhanced system reliability by 20%.
- Performed unit testing of mobile applications using manual and automated techniques, reducing bug occurrences by 15%.
- Participated in code reviews and worked with other developers to ensure code quality standards, leading to a 10% improvement in code efficiency.
- Leveraged technologies such as RESTful APIs, JSON, and XML for integration with back-end systems, increasing data processing speed by 10%.

APPLICATION SUPPORT ENGINEER

Jan 2019 – Jul 2021

Software Solutions, Inc, Hyderabad, India

- Designed and maintained CI/CD pipelines using Jenkins and Git, reducing deployment time by 10% and increasing release frequency.
- Deployed and managed scalable applications on AWS and Azure, resulting in a 15% cost reduction while maintaining performance and security standards.
- Applied configuration management with Ansible, ensuring consistent environments across development, testing, and production.
- Set up comprehensive monitoring and logging solutions using tools, improving system uptime by 20%.
- Assisted in writing Infrastructure as Code (IaC) modules and developing custom scripts with tools like Terraform, automating infrastructure deployment and configuration processes.
- Applied security best practices, and ensured compliance with industry standards, reducing security incidents by 40%.
- Collaborated with cross-functional teams to streamline workflows and documented processes, enhancing team productivity and knowledge sharing by 15%.

PROJECTS

MOSAIC

Indiana University, Technologies: Java, Kotlin, Android Studio, Firebase, BLE, HRV Sensor, API Integration

- Engineered a Mobile Stress Automated Intervention app leveraging Java, Android Studio, and Firebase, which facilitated a 20% user engagement uplift and 20% improvement in reporting accuracy, by integrating heart rate monitoring and API features, enhancing database management with SQL, and ensuring robust application deployment. Integrated Firebase analytics for data-driven decision-making, improving user accessibility metrics.

STRIVE

Indiana University, Technologies: API Integration, Java, Swift, PostgreSQL, Firebase, Android, Java

- Leveraged API Integration, Java, Swift, PostgreSQL, Firebase, Android, and Kotlin in developing a GPS-enhanced tracking feature, achieving a 40% increase in location precision and a 30% rise in user engagement by delivering a user-centric app within a 2-week deadline. Significantly upgraded app functionality and user interaction metrics by utilizing data analytics for continuous improvement and better user experience.

ACCOMPLISHMENTS

- Graduate Teaching Assistant, Indiana University for Project Management for the AWS Cloud course.
- Graduate Teaching Assistant, Indiana University for Stress Management and Prevention course
- College Secretary for The Institution of Electronics and Telecommunication Engineers for 3 years.
- Achieved 3rd place in EXCITE-2K16 HACKATHON for efficient implementation of IOT Water Saver prototype.