Ashwin Balaji Dhandapani

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SUMMARY

Results-driven full-stack developer committed to continuous learning and innovation with a solid background in software development and application security. Skilled in designing scalable, secure, and efficient web applications, consistently surpassing business expectations. Proficient in cross-functional collaboration and driving projects to successful completion.

PROFESSIONAL EXPERIENCE

R&D Software Engineering Intern | Dassault Systèmes, Boston, MA　　　　　　　　　　**Sep 2022 – Jan 2023**

- Architected an integration service and the on-premises Apache Nifi agent to extract and stream data from Oracle PeopleSoft to 3DExperience platform
- Optimized Nifi data flow to handle supplier data by making use of Nifi's custom and in-built processors
- Built Spring Boot backend microservice that performed CRUD actions on supplier data
- Implemented geospatial visualization of Supplier data using Javascript and jQuery, thereby aiding customers to accelerate strategic sourcing decisions
- Reduced boilerplate code by 40% by implementing Test-driven development, design patterns and other development best practices
- Analysed Apache Nifi logs to optimize agent performance and determine the minimum system requirements

Software Engineer – Security | S.C. Johnson, Chennai, India　　　　　　　　　　**Aug 2019 – Aug 2021**

- Developed a Django-based security utility microservice that automated Rapid7 and OWSAP ZAP scans, achieving an 80% reduction in manual efforts
- Enhanced security awareness by building a React-Django-based dashboard to display application and infrastructure scan results
- Collaborated with developers to resolve security-related issues found during DAST and SAST scans
- Customized DAST and SAST configurations by performing periodic runtime assessments, and collaborating with developers, achieving a 35% reduction in false positives
- Conducted routine penetration tests on internal and external web applications that ensured compliance and data protection

Application Development Associate | Accenture, Chennai, India　　　　　　　　　　**Feb 2018 – Jul 2019**

- Designed and implemented reactive user interfaces using Angular contributing 15% more user engagement due to enhanced user experience and interface responsiveness
- Developed and maintained backend features using Spring boot utilizing JPA, Hibernate etc. maintaining coding best practices
- Resolved backend and frontend issues using Java and Javascript based on severity during production deployments
- Maintained and developed unit tests using Junit and TestNG bolstering build stability and bringing down defect leakage
- Optimized queries improving the overall user experience reducing resource utilization

SKILLS

Programming Languages:	Java, JavaScript, Python, Bash script
Server - Side:	REST API, Microservices, Spring Boot, Django, Docker, Kubernetes, Unix
Front - end:	HTML, CSS, SCSS, React, Material-UI, Bootstrap, jQuery
Databases:	Postgres, MySQL, MongoDB, MSSQL, DB2, Cassandra
Cloud / CI-CD:	Packer, **AWS** - *[CloudFormation, IAM, CloudWatch, Route53, RDS, DynamoDB, S3, SNS, SES, SQS, CodeDeploy, Lambda, API Gateway, Fargate]*, **Azure** – *[VM, AD, App Registration]*
Version Control:	Git, GitHub, AWS CodeCommit
Security:	Kali Linux, Nmap, Wireshark, OWASP ZAP, Metasploit, Nessus, R7 AppScan, OAuth
Others:	Junit, TestNG, Mockito, Apache Nifi, Maven, multithreading, RabbitMQ, Figma

ACADEMIC WORK & PROJECTS

Teaching Assistant – Java Design Patterns (Northeastern University)

- Served as Graduate Teaching Assistant for the course CSYE7374 (by Prof. Daniel Peters) assisting in delivery of lectures, conducting labs, conducting office hours and grading from May 2023 – Dec 2023

Event Management App (WTP) : https://github.com/ashwinbalajidhandapani/whereIsTheParty.git;
https://github.com/ashwinbalajidhandapani/infrastructure.git

- Developed backend using Node.js, express, and front-end components using React.js implementing use cases such as user account management and party information
- Built application infrastructure using CloudFormation template to spin up AWS resources and configure network/security rules
- Utilized Packer to build AMI and automate dependency installation
- Leveraged AWS Amplify to enable authentication using Cognito, S3 for media storage and Lambda for email notification

EDUCATION

Master of Science in Software Engineering Systems　　　　　　　　　　**Dec 2023**
Northeastern University, Boston, MA

Bachelor of Engineering in Mechanical Engineering　　　　　　　　　　**May 2017**
Anna University, Chennai, India