ASHWIN BALAJI DHANDAPANI
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EDUCATION

Northeastern University   **Expected May 2023**
Masters of Science in Software Engineering Systems   *Boston, MA*
Anna University   **May 2017**
Bachelors of Engineering in Mechanical Engineering   *Chennai,India*

EXPERIENCE

Software Engineering Intern   **Sep 2022 – Dec 2022**
Dassault Systemes North America   *Waltham, MA*

- Collaborated with Dassault Systemes' procurement team to create a proof-of-concept showcasing integration of ERP with supplier management tool by utilizing Apache NiFi
- Developed custom Apache NiFi processors for use cases such as authentication, ERP data cleaning during the integration
- Compared and examined the datasets of the supplier Management tool and the ERP to detect gaps in the data
- Devised a method to convert location data to latitude and longitude in the real time during the data flow which eliminated the existing manual process, thus saving about 200-man hours
- Refactored public APIs to address the data gaps from the analysis

Engineer   **Feb 2020 – Aug 2021**
Gavs Technologies Pvt Ltd   *Chennai, India*

- Automated Infrastructure and Application security scan using Flask by employing the TDD approach which reduced the manual intervention by almost 85 %
- Collaborated with Security Operation Centre team to develop a dashboard (Demo) showcasing key metrics to track the compliance of the Endpoints by leveraging the REST API features of the EDR
- Partnered with Development and DevOps team to build a secure application by providing Security Recommendations for applications components as per the OWASP standards for API security, recommending secure DevOps practices for branch security configuration and Application logging
- Participated in code reviews and provided better solutions whenever possible as a member of the security team and as a developer
- Integrated Static Application Security Testing and Dynamic Application Security Testing tools to the CI / CD pipeline, thereby decreasing the security vulnerabilities found by almost 60%
- Carried out VAPT on the application during each release and worked with the developers to fix the issues
- Created a POC for Passwordless authentication of a Node.js application using Azure AD

Application Development Associate   **Feb 2018 – Jul 2019**
Accenture Solutions Pvt Ltd   *Chennai, India*

- Collaborated with Business Analysts and Developers to understand the new feature to create a comprehensive Test Design Document, performed thorough Testing following the steps in the Test Design document and reported the issues to the development team
- Identified testing stories/components that can be automated and Developed Selenium scripts for the same, this reduced the manual effort by 80% during regression

TECHNICAL SKILLS

- **Programming Languages:** Python, Javascript, Java, Go, HTML, CSS, TypeScript
- **Backend Frameworks:** Node.js, Flask, Spring, Django
- **Frontend Frameworks:** React.js, React Native, SCSS, Bootstrap, Material-UI
- **Databases:** Postgres, MySQL, MongoDB, OracleDB
- **Tools / Software:** Git, AWS. GCP
- **CI / CD Tools:** GitHub Actions, Azure Pipelines
- **Others:** RESTful API, Pytest, Junit, Chai.js, Penetration Testing, jasmine.js, Apache NiFi, Docker, Kubernetes

ACADEMIC PROJECTS

PartyApp | *MongoDB, Express, React.js, Node.js, AWS (Lambda, Simple Notification Service, Simple Email Service)*

- Designed and Implement REST API endpoints with complex Logics for the front-end to fetch Data
- Contributed to features such as user roles, google map functionality, email verification, and booking confirmation

Cloud Backend Project | *Node.js, Cloud formation, AWS, AWS SDK, MySQL*

- Developed Node.js backend APIs to create user, get user / users information, update user information, delete user information and upload / download / delete media for the user
- Utilized AWS components such as Amazon RDS (MySQL) to store user information and authentication tokens, s3 for the media, AWS Lambda, Simple Email Service and Simple Notification Service for user activation
- Coded a Cloud formation template to spin up a new Virtual Private Cloud for the application components such as the EC2 instances, Load balancers, S3, RDS and DynamoDB for the storage, SES, SNS, Lambda and to create / configure security, autoscaling etc
- Used GitHub actions and AWS CodeDeploy for deployment of the application