ESHWAR NAG PILLI

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EDUCATION

Master of Science in Computer Science **Jan 2021-Dec 2022**
Washington State University ***GPA: 3.85 / 4.0***
Coursework: Advanced Algorithms, System Design & Architecture, Database Systems

Bachelor of Engineering in Computer Engineering **Aug 2014-May 2018**
Maharashtra Institute of Technology, Pune, India ***GPA: 3.5 / 4.0***
Coursework: Data Structures, Algorithms, Operating Systems, Software Engineering, Artificial Intelligence, Database Systems and Applications, Machine Learning

TECHNICAL SKILLS

Languages: Typescript, Python, JavaScript, Java, HTML, CSS, C++
Databases: AWS DynamoDB, MySQL, PostgreSQL, MS SQL Server, MongoDB
Tools and Frameworks: ReactJS, AWS Lambda, AWS API Gateway, AWS Route53, AWS Systems Manager, AWS S3, AWS Simple Notification Service (SNS), AWS SQS, Python Flask, Spring boot, JPA, Git, Postman, VSCode,

WORK EXPERIENCE

Software Development Engineer II - Amazon Inc **Jun 2025-Present**
Software Development Engineer I - Amazon Inc **Jan 2023-Jun 2025**

- Led AMS Cases Routing in GovCloud project, resolving critical routing issues affecting 142 cases across 43 accounts and eliminating SLA violations by implementing cross-partition solution with 60-120 second routing time.
- Optimized Census API key distribution system, achieving 82.2% increase in burst limit capacity by implementing standardized guidelines and reducing approximately 3,275 burst limits from major services.
- Enhanced AMS Connector security for ServiceNow implementation by fixing ACL bypass vulnerabilities and implementing secure query handling, enabling successful Yokohama certification.
- Resolved Census cross-region API throttling synchronization failure affecting 57 API keys across multiple regions, eliminating throttling rates of up to 5.59% and ensuring consistent service performance.
- Led incident response for Chronos SIR customer offboarding issue, implementing critical improvements in error handling and monitoring that protected 177 accounts from potential security monitoring disruptions.

SDE Intern – Amazon Inc. **May 2022-Aug 2022**

- Developed end-to-end automation to trigger alarms when LSE/outage and notify end customers about impaired services and not make any updates to the accounts.
- Designed automated banner display architecture by gaining in-depth knowledge about the AWS stack, which includes AWS Lambda, AWS DynamoDB, AWS S3, AWS Route53, SSM Parameter, AWS SNS, AWS SQS

Graduate Developer – Biological Systems, Engg, WSU | Java Spring Boot, JPA, Hibernate **Oct 2021–May 2022**

- Developed a software application analog tool that shows the best analog of a county's vegetable production.
- Implemented business logic as per application requirements to view county vegetable production details and service layer components using Spring/Hibernate APIs and improved application performance by 21%.

Student Developer – Smart Grid Research Lab, WSU | Python Flask, PostgreSQL, ReactJS **Feb 2021–Oct 2021**

- Built synchronous anomaly and event detection application to detect voltage and power fluctuation in an electric power grid system.
- Developed UI application screens using ReactJS, Python Flask APIs, and PostgreSQL queries to graphically represent voltage/current fluctuations of power grids in Washington State.

Software Engineer – Cybage Software Pvt. Ltd. | Java Spring, REST APIs, JPA, ReactJS **Jul 2018–Dec 2020**

- Coordinating with 4 cross-functional teams - design, development, automation testing, and production - by exhibiting strong technical expertise in Java to develop an interactive fleet management portal.
- Implemented role-based login and created internal and external REST APIs using Java Spring Boot, JPA, and Hibernate, which involved viewing information specific to the user's role.
- Built informative UI screens and application interface code using ReactJS based on the wireframes. Performed unit testing using JUnit and Mockito to achieve maximum code coverage, resulting in 100% compliance with user requirements and a bug-free code.

PROJECTS, LEADERSHIP AND ACHIEVEMENTS

- **Port Management Software – Smart India Hackathon 2017** **Apr 2017 -**
  Led a team of 6 to develop software using Python and ReactJS to assist port authorities in analyzing and optimizing port operations. Executed Ant Colony Optimization Algorithm (ACO), a probabilistic technique for solving computational problems, to tackle dynamic berth allocation and reduce the overall cost by 37.5%.
- Started a community with 75 students at WSU to educate about blockchain technologies. **Mar 2021**
- Led a team of six to win Innervehack2k17 (TIETO, AIT) for Port Management Software. **Oct 2017**
- Secured 3rd position by competing against 300 teams nationwide in Smart India Hackathon '17. **Apr 2017**