

# SAIMAHITH CHIGURUPATI

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## EDUCATION

**Master of Science in Information Systems**, *Northeastern University, Boston* Expected April 2024  
Coursework: Application Engineering and Development, Web Design and User Experience Engineering, Network Structures and Cloud Computing, Cryptocurrency and Smart Contract Engineering, Program Structures and Algorithms

**Bachelor of Engineering in Electronics & Communication Engineering**, *RMK Engineering College, India* April 2019  
Relevant Courses: Computer Networks, Computer Architecture, Object Oriented Programming (OOPS) and Data Structures

## TECHNICAL SKILLS

**Programming Languages** : Java, Python, Solidity  
**Web Technologies** : HTML, CSS, JavaScript, Node.js, React, Next.js, TypeScript, MongoDB, Hardhat, Foundry  
**Tools and Technologies** : Linux, AWS, Terraform, Git, CI/CD, MySQL, PostgreSQL, NoSQL, Pega PRPC, REST API  
**Certifications** : Pega Certified Senior System Architect (CSSA)

## WORK EXPERIENCE

**Software Engineer**, *Optum Global Solutions, India* August 2021 - August 2022

- Played a key role in design and development of a web and mobile health insurance application for UnitedHealth Group in HTML, CSS, JavaScript, PostgreSQL and the Pega PRPC, serving 49 million customers through 50,000+ agents
- Implemented a custom security event logging system in Java to improve data protection for customer's PHI/PII, reducing potential data breach risk by 95% for UHG saving millions of dollars for company in legal fee and customer trust loss
- Received a Bravo recognition award for implementing a key feature in the Application by integrating Adobe Sign and SMS API enabling business to overcome challenges during COVID-19

**Programmer Analyst**, *Cognizant Technology Solutions, India* June 2019 - July 2021

- Redesigned architecture of a loan processing application following modularity principles, improving efficiency, and streamlining future enhancement processes by 60% for developers
- Designed and developed REST APIs as a back end Pega developer for a .NET application and utilized application log files and Splunk tool to troubleshoot and resolve production issues with zero downtime
- Improved code efficiency to boost application performance by 75%, resulting in faster case processing time for the International Finance Corporation (IFC) Business of the World Bank Group

## PROJECTS

**Inventory Management API** (Node.js, PostgreSQL, Git, CI/CD, AWS, Terraform, Packer) March 2023

- Built and deployed a web-based inventory management system using AWS EC2, RDS, S3, Route 53, and CloudWatch with automatic scaling and load balancing by ASG and Load Balancer
- Automated infrastructure provisioning and configuration utilizing Terraform and created custom AMI's using Packer and Bash scripting for CI/CD pipeline

**Easy Track** (HTML, SCSS, React, Node.js, MongoDB) December 2022

- Collaborated with a team of four to design and build a web application based on MERN stack following MVC design pattern, providing salaried individuals with an easy way to track income and expenses
- Implemented a productive application by designing efficient RESTful API's and creation of a user-friendly interface with built-in analytics to provide enhanced user experience

**Package Delivery System** (Java Swing, OOPS, Google Maps API, MySQL) November 2022

- Collaborated with a team of three to design and develop a robust and reliable Package Delivery System for B2B and B2C in Java Swing and MySQL
- Improved B2B user efficiency by 85% through proper data management and visualization with graphs, and integrated Google Maps API for better end-user convenience

## ACHIEVEMENTS

- ETH Boston:** Recognized as Best project using Waev protocol for "BlockMed" at ETH Boston Hackathon, April 2023
- LionHack NYC:** Received 3 bounties for building "Earn for Good" leveraging wormhole, ZKaptcha, and Endaoment Protocol
- Harvard Blockchain Conference:** Runner-up in the Axelar Network track for building "Cookie Mart" project in April 2023