

MELVIN SURESHBABU

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EDUCATION

The University of Texas at Austin McCombs School of Business	Bachelor of Business Administration, Management Information Systems Minor: Entrepreneurship Certificate: Elements of Computer Science Overall GPA: 3.95 Relevant Coursework: Data Structures, Algorithms, Game Development, Software Engineering, Database, Web Development, Statistics, Data Mining, Predictive Analytics	May 2023
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EXPERIENCE

John Deere – Software Engineering Development Program; Austin, TX	June 2023 – Present
<ul style="list-style-type: none">• Developed in-house tooling for reporting the security posture of 100% of teams to leadership• Integrated and wrote APIs for retrieving and accessing security related metrics on 12000 repos• Leveraged AWS Lambda, CloudWatch, SQS, and SNS to deploy code with 99.9% uptime	
John Deere – Cyber Security Software Engineering Intern; Austin, TX	October 2022 – June 2023
<ul style="list-style-type: none">• Built Python Automation to integrate and enhance various security scanning tools such as BridgeCrew, Mend, Veracode, etc• Created automated unit and behavioral testing for numerous repositories using PyTest to reach 100% coverage• Authored version updates and enhancements to an inhouse API wrapper for Github decreasing issues generated by 30%	
Toyota Connected – DevOps Software Engineering Intern; Plano, TX	May 2022 – August 2022
<ul style="list-style-type: none">• Engineered Django web application which gave developers access to resources such as AWS, Gitlab, Vault, and Loft• Reduced wait and setup times from 3+ days to 30 minutes or less• Introduced a Gitlab Templating feature for repository creation which saved 1 hour on every creation	
Root Translate – Technical Product Manager; Austin, TX	December 2021 – May 2022
<ul style="list-style-type: none">• Developed custom translation technology that providing more than 58% accuracy in medical context translations• Leveraged Microsoft Cognitive Services, Blazor, and Bootstrap to create application prototype• Supervised team consisting of 5 engineers, 1 UX/UI Designer, and 1 Business Analyst	

PROJECTS

Portfolio Site - <https://melv1ns.github.io/>

ReefDefense - <https://melvin-s.itch.io/reef-defense>

- Led the engineering of a tower defense game in JavaScript and HTML5 utilizing Phaser CE
- Designed various game assets using pixel art and sprite sheets
- Launched game on itch.io where 400+ people played

UTrends - <https://github.com/txconvergent/f20-bt-ai-nlp>

- Created a campus events app that shows utilizes machine learning to bring users succinct information about events
- Incorporated machine learning and natural language processing using BERT to summarize articles into 5 second snippets
- Utilized web scraping using Python (Selenium) to dynamically pull events and React Native to create a mobile app demo

AWARDS

Toyota Swarm Hackathon – 2nd Place Finish	July 2022
<ul style="list-style-type: none">• Pioneered a solution to drunk driving using thermal imaging and a machine learning model with an accuracy of 87.5%	
John Deere GSEC Hackathon – 3rd Place Finish	January 2023
<ul style="list-style-type: none">• Gamified security posture scanning through quest-based reward system	

ADDITIONAL INFORMATION

Computer Skills: Gitlab CI/CD, Git, Agile, Python, Django, React, JSON, JavaScript, SQL, Database, HTML, CSS, Bootstrap, C#, ASP.NET, MVC, R, Unit Tests, Integration Tests, APIs, HTTP, Docker, Kubernetes, Linux, Terraform
Certifications: React Native Basics, Responsive Web Design, AWS Cloud Practitioner (In Progress)
Work Eligibility: Eligible to work in the U.S. with no restrictions, Hungary Consular Letter + Residence Permit