

Vamsi Pachamatla

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GitHub: github.com/vamsi3379 | Portfolio: vamsipachamatla.com

EDUCATION

Master of Science in Computer Science

University of Florida - Gainesville, Florida

August 2022 – December 2023

GPA: 3.83/4.00

CISE Non-Degree Program

University of Florida - Gainesville, Florida

January 2022 - May 2022

GPA: 3.5/4.00

Bachelor of Technology in Computer Science Engineering

Bennett University - Delhi, India

August 2018 - May 2022

GPA: 3.3/4.00

SKILLS

Languages : C, C++, C#, Java, Python, GO, SQL, JavaScript, HTML, CSS, Erlang, Swift, Typescript.

Technologies : Node.js, Angular, React.js, Docker, Django, Figma, Next.js, Bootstrap.

Frameworks/Tools : Express.js, MySQL, AWS, Git, CI/CD, .Net, REST API, D3.js, GraphQL, PostgreSQL, Redux, MongoDB.

PROFESSIONAL EXPERIENCE

University of Florida - Gainesville, Florida, US

June 2023 - Present

Graduate Research Assistant – Software Engineer

Technologies: D3.js, MongoDB, Express.js, React, Node.js, AWS, and Auth0

- Executed a seamless migration of a legacy Shark bite victims database AWS server, optimizing storage and database performance with column analysis, refinement, and an admin dashboard.
- Leveraged the extensive functionalities of the D3.js framework to create comprehensive data visualizations based on shark attacks and geolocations.

University of Florida - Gainesville, Florida, US

January 2023 - May 2023

Graduate Student Assistant – Software Engineer

Technologies: PostgreSQL, Express.js, React, Node.js, AWS, Nginx, Docker, CI/CD, and Auth0

- Designed a fully functional web application to retrieve files from Amazon S3 buckets, enabling efficient real-time traffic monitoring by streamlining sensor data for over 100 traffic intersections in large-scale cities like Orlando.
- Employed a high-availability deployment strategy using Nginx and Docker services on AWS, ensuring 0 downtime and seamless updates across multiple cluster nodes.

Celebal Technologies – Jaipur, India

August 2021 - October 2021

Associate Node.js Developer Intern

Technologies: Node.js, Azure Cloud, Microsoft Bot Framework Composer, and Bot Framework Emulator

- Developed and maintained a Microsoft Teams Bot application using Node.js and the Microsoft Bot Framework, streamlining HR processes and reducing manual workload by 30%, while ensuring smooth functionality and optimal performance.
- Collaborated with cross-functional teams, including designers and product managers, to gather requirements and implement new features and enhancements in the chatbot.

PROJECTS

UPSC Pre | [Play Store](#)

Technologies: Next.js, Node.js, MongoDB, Express, AWS, Elasticsearch, Django, and Python

- Built an android learning platform application for students to prepare for the most competitive exams conducted by UPSC (Union Public Service Commission) of India while closely collaborating with 3 others.
- Achieved top ten ranking among UPSC-related applications on the Play Store. Currently, overseeing the expansion of the existing android app by introducing a web application component.

PeekNshop | [GitHub](#)

Technologies: Angular, Bootstrap, Go, SQL, JWT, Cypress, SDLC, and Figma

- Pioneered web application for University of Florida students, facilitating the discovery of affordable exclusive local shopping deals within the campus vicinity.
- Implemented app authentication flow by integrating JSON web tokens (JWT) with passport and passport-jwt packages. Established seamless integration between the app and an SQL database via APIs developed in Golang.

EShop | [Preview](#) | [GitHub](#)

Technologies: C#, .Net, Blazor, Bootstrap, MSSQL, Stripe, Microservice, and Azure

- Enhanced CRUD functionality in the application by enabling admins to add new products, and allowing customers to order items. Achieved a server response time of less than 3000ms through API gateway.
- Devised secure authentication in the EShop app using .Net, incorporating user access levels and a JWT-based authentication system.