Barkha Amarlal Chainani

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Education

University of Central Florida   Orlando, FL
Masters in Computer Engineering, Software Systems and Algorithms specialization GPA: 3.4, Exp Graduation: Dec 2024
Relevant Coursework: Advanced Database Systems, Machine Learning, Software Engineering I.

Savitribai Phule Pune University   Pune, India
Bachelors in Electronics and Telecommunication Engineering   GPA: 7.66/10, Graduation: May 2020

Skills

Programming Languages: JavaScript, Java, Python, TypeScript, Ruby, C++
Frameworks & Libraries: React.js, Node.js, Django, Flask, Ruby on Rails, jQuery, BootStrap
Tools & Technologies: RESTful API, Git, Docker, Asana, PowerBI, HTML/CSS, Three.js, Unity
Databases: MongoDB, PostgreSQL, MySQL, SQLite
Cloud Platforms: Azure (Document Intelligence, Cognitive Services), Google Cloud Platform - ML APIs, TensorFlow.

Experience

University of Central Florida   Orlando, FL
Personalized Adaptive Learning Assistant   September 2023 - Present
- Developed 10+ STEM course content modules for a user base of 200+ students and interactive widgets for LMS platforms using HTML/CSS Web Design, enhancing learning engagement.
- Created 2 PowerBI dashboards for potential project use, receiving positive feedback and automated 2 workflows for task creation and task management in Asana Project Management Tool.
- Evaluated the accessibility of 3 major markdown formats (LaTeX, MathML, MathJAX) and documented performance across 5 widely used education software tools, improving content accessibility and was awarded the Outstanding Collaboration Award for Accessible Math in May 2024.

Balance Now   Pasadena, CA (Remote)
Ruby on Rails Developer Intern   May 2024 - August 2024
- Designed 10+ Figma prototypes for a DEI web app's "Sources" feature, focusing on detail to enhance engagement. Collaborated with designers, developers, and marketing teams following Agile principles.
- Built and tested 6 'Sources' JavaScript prototypes; contributed to a full-stack JavaScript and Rails app.
- Resolved Node.js, PostgreSQL setup issues; committed "Sources" feature to Git in Ruby for backend programming.

Tata Consultancy Services   Mumbai, India (Remote)
Associate Systems Engineer   January 2021 - June 2022
- Implemented 30+ HTML structural changes for the frontend across 100+ customized CRM views and optimized JavaScript backend scripts to fetch stocks from upstream system, tracked and managed using Excel.
- Quickly diagnosed and resolved layout issues in 10+ views post-merge using version control, ensuring minimal downtime and maintaining 100% application stability.
- Enhanced 2 CRM UI elements with JavaScript for improved user interaction, including button grouping and applet resizing, and automated 4 biweekly sales reports, cutting manual reporting time by 60%.

Projects

Full-Stack Blog Platform *(In Progress)*   *(React, Node.js, AWS)*
- Building a full-stack website with React, Node.js, and MongoDB for article posting and commenting with intuitive user interfaces and forms.
- Deploying the site on AWS, integrating user authentication with Firebase Auth for secure login.

Lunch Buddies - Meetups Platform   *(Full-Stack Application)*
- Architected a platform for managing meetups using Django and React, featuring user authentication and event scheduling, received positive feedback through early surveys.
- Implemented RESTful APIs and enabled chatrooms using WebSockets in Django, facilitating real-time communication among users with future scalability to thousands.

NotesApp   *((React Frontend & Django Backend)*
- Built a full-stack CRUD application with Javascript (React) and Django RESTful API, implementing note management features and enhancing productivity and User Experience.
- Developed RESTful APIs and integrated real-time updates and ensured seamless communication between frontend and backend, improving application responsiveness by 25%.