

PACHAVA ABHIGNYA

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EDUCATION

KHOURY COLLEGE OF COMPUTER SCIENCES, NORTHEASTERN UNIVERSITY	Boston, MA
Master of Science in Data Science	Jan 2022 - Dec 2023
VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	Hyderabad, India
Bachelor of Technology in Computer Science Engineering	Aug 2016 - Sep 2020

SKILLS

Languages: C, C++, C#, Java, Python, R, MySQL, NoSQL, MongoDB, PostgreSQL, HTML, CSS, JavaScript
Frameworks: Angular, React, Node.js, Flask, Material-UI, REST API, Docker, Kubernetes, CodedUI, WPF
Developer Tools: Git, VS Code, Visual Studio, Eclipse, Jupyter notebook, Google colab, JIRA, TFS
Libraries: Numpy, Pandas, Scikit learn, TensorFlow, Keras, PyTorch, nltk
Cloud/Data Processing: AWS, Google Cloud Platform, Data cleaning, Data Modeling, Tableau, Power BI, Google data studio, Matplotlib, Seaborn

PROFESSIONAL EXPERIENCE

ABECEDARIAN

Research Assistant	Feb 2024 - Present
<ul style="list-style-type: none">Orchestrated ML algorithm optimization for Abecedarian using Python, TensorFlow, resulting in a 15% improvement in predictive accuracy.Streamlined data processing workflows with Pandas and Scikit-learn, enhancing efficiency by 20% and supporting scalable analytics solutions.	

KHOURY COLLEGE OF COMPUTER SCIENCES

Graduate Teaching Assistant - Algorithms, Discrete Structures	Boston, MA
	Sep 2022 - Dec 2023
<ul style="list-style-type: none">Elevated the comprehension and application of Algorithms and Discrete Structures for 200+ students by integrating practical coding examples and interactive problem-solving sessions in Java, Python, and C#, achieving a notable increase in A grades among students from non-math backgrounds.Pioneered the adoption of blended learning techniques in computer science education, enhancing student engagement and understanding of complex algorithms and data structures through the use of React and SQL projects, boosting course completion rates by 20%.Transformed learning experience for students struggling with abstract concepts in Discrete Structures by developing custom educational tools and simulations in Python, resulting in a significant improvement in student performance and satisfaction.	

NCR CORPORATION

Software Engineer	Hyderabad, India
	Jan 2020 - Dec 2021
<ul style="list-style-type: none">Engineered responsive UI/UX designs for 25 screens and 7 pickers in R10, employing React TS, React Hooks, and Material-UI, enhancing user satisfaction; implemented version control best practices with Git and Bitbucket.Led performance optimization of a critical item picker feature in R10 through advanced C# programming, .NET Core development, and SQL optimization, achieving a 15% improvement in response times.Pioneered a multilingual translation feature in R10, utilizing react-i18next, making the application accessible in over 50 languages, boosting global market reach.Upgraded application architecture by migrating 30 controllers from .NET to .NET Core, adopting SCRUM agile practices, which significantly enhanced modularity.Fostered technical growth of 3 interns by leading them in rapid service implementation for R10, using CodedUI and Cypress for robust integration testing.Built a Python-based fraud detection model using logistic regression, Pandas and Numpy for fraud detection, integrating SQL for data management, achieving a precision of 0.81 in predictive accuracy.Designed and implemented secure, scalable full-stack applications using Python/Flask and React, with Docker for containerization and Kubernetes for orchestration, achieving 99.9% uptime and enhanced deployment efficiency.	

MROADS

Software Engineer Intern	Hyderabad, India
	Dec 2018 - May 2019
<ul style="list-style-type: none">Increased OneDine server app's efficiency by integrating a payment module with React-Redux, achieving 36% boost in process speed and improving user interface.Resolved 15 critical bugs in both the OneDine customer app and Panna AI-driven interview platform by employing JIRA and Confluence for strategic tracking and management, which ensured uninterrupted service and boosted system reliability.Streamlined Full Stack development processes by leveraging React, and SQL for various projects, leading to optimized system functionality and enhanced data processing capabilities, meeting key project delivery milestones.	

PROJECTS

GROCERY TIME (React, REST API, MongoDB, Material UI, Git, Heroku)
<ul style="list-style-type: none">Engineered and deployed a React-based full-stack e-commerce website with REST API and MongoDB, incorporating Material UI and Git for user-friendly product search, cart functionality, and wish-list feature, enhancing shopping experience; successfully launched on Heroku for real-world accessibility and testing.
SMARTCARE: HOSPITAL MANAGEMENT SYSTEM (React, Node.js, Express, SQL, Material UI)
<ul style="list-style-type: none">Built a React and Node.js-based Hospital Management System using Express and SQL, integrating features like patient registration, appointment scheduling, and EMR; optimized SQL queries to achieve an average EMR retrieval time of under 2 seconds, and designed a user-friendly interface with Material UI.
FINTRACK (Java, Spring Boot, SQL, Angular)
<ul style="list-style-type: none">Created a Java and Spring Boot-based real-time portfolio tracking and performance analysis system, integrating an Angular frontend for market data and performance metrics display, and built a SQL database for effective asset allocation strategies, enhancing secure authentication and investment decision-making.
EFFITASK (HTML, CSS, JavaScript, React, Node.js, Express.js, SQL, RESTful API, JWT, Git, Heroku)
<ul style="list-style-type: none">Crafted EFFITASK, a responsive To-Do List Application using HTML, CSS, JavaScript, React, Node.js, Express.js, SQL, RESTful API, and JWT, achieving a 15ms task confirmation response time; integrated task management features and secure user authentication, deployed via Heroku for enhanced accessibility.