

CHANDRA PRAKASH BATHULA

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EDUCATION

Master's in Information Systems

GPA: 3.93/4.00

Saint Louis University

May 2024

PROFESSIONAL EXPERIENCE

Saint Louis University

St. Louis, MO

Software Developer & Adjunct Faculty

Aug 2024 – Present

- Led SLU internal projects as team lead, managing design-to-deployment with React.js, Node.js, AWS, and CI/CD pipelines, delivering secure, scalable solutions.
- Built and deployed 40+ production-ready student projects using full-stack tech (React.js, Vue.js, Node.js, NoSQL/MongoDB, Firebase Auth) and deployment tools (Vercel, Firebase Hosting).
- Designed and reviewed 30+ responsive, accessible UIs with Figma; integrated Agile, Scrum, Kanban, and Git workflows to mimic real-world SDLC practices.
- Mentored students on hands-on Machine Learning, Deep Learning (CNNs), NLP, GPTs, and Generative AI use cases, boosting real-world readiness for cutting-edge tech.
- Supervised 20+ capstone teams, troubleshooting APIs, containers, and pipelines, reducing blockers by 50% while promoting best practices in Git, unit tests, and automation.
- Taught and coached 250+ students across Software Development and Advanced Software Development courses, fostering strong technical, collaborative, and product-thinking skills.

Saint Louis University

St. Louis, MO

Technical Intern – Global Grad

Mar 2023 – Dec 2023

- Researched and automated iPaaS workflows for priority-based email routing, cutting manual workload by 40% and boosting SLA compliance by 30%.
- Designed and deployed user-friendly UI/UX interfaces, streamlining navigation and reducing process bottlenecks across campus IT services.
- Built Lost-and-Found and 3D print ticket tracking systems integrated with Canvas, securing student items and improving turnaround time by 35–50%.
- Collaborated with IT teams and students, iterating interfaces from feedback, increasing campus service satisfaction by 25% and saving 15+ hours/week.

Qentelli Solutions Pvt Ltd

Hyderabad, India

Associate Software Engineer

June 2021 – Jul 2022

- Contributed as a front-end engineer on the Innovation Team, delivering UI features for 3 in-house enterprise products serving 5K+ users, using React.js and Vue.js.
- Designed high-fidelity Figma prototypes and translated them into pixel-perfect React.js and Vue.js components; developed cross-platform desktop apps using Electron.js.
- Integrated MongoDB and Java backend services for seamless data flow; leveraged GitLab for version control and terminal-based automation for builds and deployments.
- Implemented unit, integration, and end-to-end tests with Jest, raising test coverage to 90% and reducing defect leakage by 40%.
- Managed DevOps CI/CD pipelines and collaborated with QA to identify and fix bugs early, accelerating releases by 25% and lowering production incidents by 30%.

Qentelli Solutions Pvt Ltd

Hyderabad, India

Internship

Mar 2021 – Jun 2021

- Contributed to 2 internal product builds using React.js, Vue.js, and component libraries like Quasar, Bootstrap, and Vuetify, enhancing UI consistency and reducing dev rework by 30%.
- Designed and implemented front-end modules from Figma wireframes, ensuring accessibility compliance and visual alignment with brand standards.
- Collaborated in an Agile Scrum team with senior developers; utilized JavaScript-based testing tools and DevTools to identify and fix UI bugs, reducing front-end issues by 20% per sprint.

PROJECT EXPERIENCE

- Built a **3D PCA Visualization** tool (Python, Word2Vec, Plotly) to project 10K+ word embeddings into 3D space, uncovering bias and reducing semantic complexity by 85%.
- Developed **TubeFlix** (React.js, Tailwind, Firebase, YouTube API), a platform handling 1K+ videos with adaptive playback and smart search, boosting retention by 25% and cutting load times by 30%.

- Engineered the **EliteNotes App** (JavaScript, TF-IDF, Word2Vec, React, Firebase) with 7 ML features—real-time transcription, keyword extraction, semantic tagging—to improve accuracy by 25% and reduce latency by 50%.
- Built an **Apparel Recommender** (TF-IDF, Word2Vec, VGG-CNN) processing 180K+ images and metadata, combining text and visual embeddings to lift recommendation accuracy by 20%.
- Created a **NYC Taxi Demand Predictor** (XGBoost, Random Forest) on 5M+ trips, achieving <12% MAPE through geospatial clustering and feature engineering.
- Designed **Tableau Dashboards** (Tableau, Kaggle) for salary, Netflix, and Amazon sales data—crafting 3 interactive dashboards that increased stakeholder insights by 15%.
- Crafted a **Farmers App Design** (Figma) for climate and crop logistics, integrating real-time weather data and supply-chain tracking to cut manual planning effort by 40%.

TECHNICAL SKILLS

Languages: Python, R, SQL, MATLAB, JavaScript, HTML

Data Analysis/Visualization: Tableau, Power BI, Excel, Pandas, NumPy, Matplotlib, Seaborn

ML/AI: scikit-learn, TensorFlow, PyTorch, Keras, NLP, Predictive Modeling

Tools/Platforms: Git, GitLab, VS Code, PyCharm, AWS (EC2, SNS), Jupyter

Frameworks: Flask, Django, OpenCV, React.js, Vue.js, Node.js, Express.js

Other: Agile, Scrum, Jira, API Integration, Data Pipelines, CSS

PUBLICATIONS, AWARDS & ACHIEVEMENTS

- First Author: *“Enterprise Application Tool to Discover Midwest Job Trends.”*
- Awarded Distinguished Student for Masters Research Project and GPA excellence.