BHAVANA BOLISHETTY

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Education:

- ***University of Houston–Clear Lake, Houston, TX***   **Aug 2024 - May 2026**
  Master of Science in Computer Science   *GPA: 3.4/4.0*
- **Osmania University, Hyderabad, India**   **Sep 2021 - May 2024**
  Bachelor of Engineering in computer science   *GPA: 8.69/10.0*
- ***Government Polytechnic Nizamabad, India***   **July 2018 - June 2021**
  Diploma in Computer Science   *GPA: 9.69/10.0*

Technical Skills

- **Programming**: C, C++, Go, Java, Python, JavaScript, TypeScript
- **Web Development**: React.js, Redux, Node.js, Express.js, Tailwind CSS, Spring Boot, Django, Flask, HTML, CSS
- **Databases**: MySQL, PostgreSQL, MongoDB, Firebase
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, RDS), Docker, CI/CD Basics (GitHub Actions)
- **Testing**: JUnit, Jest, React Testing Library
- **Concepts**: Data Structures & Algorithms, RESTful API Design, Authentication (OAuth 2.0, JWT, Sessions, IAM), System Design (Basics), Client–Server Architecture
- **Tools**: Git, GitHub, Jira, Postman, Visual Studio, Eclipse, PyCharm

Work Experience

Graduate Student Assistant | *Computer Science Department UHCL, Houston, TX*   **Jan 2025 – Present**

- Assisted in grading and evaluating programming assignments in **Java and C++**, ensuring consistency with **course rubrics**.
- Supported students during lab hours by **debugging code** and explaining **data structures and algorithms** concepts.
- Maintained and organized course code repositories and **technical documentation** used across multiple semesters.

Software Engineer | *FinMkt, Hyderabad, India*   **June 2023 – July 2024**

- Developed and maintained user-facing React components, improving **application responsiveness and overall performance**.
- Translated UI/UX wireframes into **clean, reusable React components**, reducing **frontend development time by 25%**.
- Integrated **RESTful APIs** and optimized state management using React Hooks and Context API, improving data consistency and UI responsiveness.
- Collaborated with designers and backend teams to ensure **platform consistency** and enhance **user experience (UX)**.
- Improved **page load performance by 30%** by optimizing assets, minimizing render cycles, and refactoring legacy code.

Project Experience

Realtime Collaborative Code Editor | *Node.js, Express.js, React.js, Socket.io*

- Developed a web-based collaborative code editor that allows **multiple users to join shared rooms** and edit code in **real time**.
- Implemented **low-latency synchronization** using **Socket.io WebSockets** to broadcast code changes across connected clients.
- Built **server-side room management**, connection handling, and **session isolation** to ensure reliable collaboration experiences.
- Enhanced the user experience with **syntax highlighting**, **theme selection**, and **room sharing** for remote pair programming.

Smart Email Notification System (Multi-Channel Alerts) | *Python, Gmail API, Twilio (WhatsApp), OAuth 2.0*

- Built a background notification service that monitors incoming Gmail messages and delivers real-time alerts to WhatsApp based on **configurable priority rules and filters**.
- Implemented **OAuth-based authentication**, email parsing, retry logic, and structured logging to ensure **reliable delivery** of time-sensitive notifications.
- Designed a **modular notification pipeline** to support **multiple delivery channels** and **user-defined alert preferences** for extensibility.

Job Application Tracker | *Go, PostgreSQL, RESTful APIs, TypeScript Frontend*

- Developed a dashboard-style web application to **organize job applications** by status (**applied, interview, offer**) with **search and filtering** capabilities.
- Built **RESTful APIs** and designed **PostgreSQL schemas** to manage users, applications, and activity history with proper **data validation**.
- Implemented **responsive UI components** and **state management** to provide a smooth, organized tracking experience.

Skincare Essentials E-Commerce Platform | *HTML, CSS, JavaScript, PHP, MySQL*

- Developed a full-stack e-commerce platform supporting **product browsing**, **shopping cart**, and **checkout workflows**.
- Implemented **server-side business logic** using **PHP** and **MySQL** for **user authentication**, **order processing**, and **inventory management**.
- Designed **responsive frontend pages** with dynamic product views and form validation to improve overall **usability and reliability**.