

# Bhavani Atla

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## Summary

**Full Stack Developer** with hands-on experience in developing scalable and responsive web applications using **Java, React, and Node.js**. Proficient in building **RESTful APIs**, integrating frontend and backend systems, and managing databases like **MySQL and MongoDB**. Strong foundation in **object-oriented programming, data structures, and algorithms**. Experienced in working within Agile teams and using tools such as **Git, Jira, Postman, and Figma**. Passionate about clean code, performance optimization, and continuous learning to deliver high-quality software solutions.

## Experience

**DB Attic Studios** Bedford, NH, **Product Experience & Operations Engineer** | 07/2025 – Present

- Designed and optimized user interfaces and workflows for research and product environments using **React, JavaScript, and Figma**, significantly improving usability and cross-team efficiency.
- Engineered internal tools and operational systems with real-time feedback loops, streamlining process automation, compliance tracking, and enhancing audit readiness.
- Led user research, usability testing, and data-driven UX improvements, delivering iterative enhancements that supported product development and research outcomes.
- Managed and maintained company websites, resolved technical issues in collaboration with web developers, and supported project delivery through **Jira, Git**, and structured documentation.

**Rivier University** Nashua, NH, **Teaching Assistant** | 05/2024 – 05/2025

- Supported students in mastering **Java** programming, algorithm design, and object-oriented principles through personalized guidance and hands-on lab sessions.
- Clarified complex concepts in data structures, optimization, and problem-solving during lectures, labs, and one-on-one mentoring.
- Assisted faculty with course material preparation, grading assignments, and facilitating effective learning experiences in a collaborative academic environment.

**Accenture** Hyderabad, India, **Senior Associate Software Engineer** | 08/2022 – 07/2023

- Developed full-stack web applications with responsive UI components using **HTML, CSS, and JavaScript**, and integrated secure backend services using **Node.js and MongoDB**.
- Leveraged **Apache Kafka** to build real-time data pipelines, enhancing system resilience and enabling high-throughput data ingestion and processing.
- Optimized API performance by refining database queries, reducing load times by 30%.
- Actively contributed in Agile ceremonies to ensure efficient and timely project delivery.

## Skills

**Languages/Frameworks:** Java, JavaScript, React, Angular, Node.js, Python, C++

**Web & Databases:** HTML, CSS, SQL, MySQL, MongoDB, PostgreSQL

**Tools & Cloud:** Git, Jira, Postman, Figma, Apache Kafka, AWS, CI/CD, DevOps

**Concepts:** Agile, OOP, RESTful APIs, Data Structures & Algorithms, Test-Driven Development

## Projects

### Cryptocurrency Real-Time Price Streaming App

- Built a full-stack web application that streams real-time cryptocurrency prices from TradingView.
- Implemented a **Node.js** backend (with **tsx**) to scrape and stream live price data using Playwright.
- Developed a **Next.js frontend with React** to display dynamic, real-time updates to users.
- Integrated **ConnectRPC** for seamless, type-safe communication between frontend and backend.
- Managed dependencies with **pnpm** and set up **CI/CD** workflows for reliable deployment.

### Sudoku Solver and Generator

- Designed and implemented a command-line Sudoku game in **Python**, allowing users to generate, solve, and interact with puzzles in real-time.
- Built an automated puzzle generator and backtracking solver to handle both system-generated and user-input Sudoku boards.
- Leveraged **Python** modules such as **random, time, and copy** to support dynamic board creation, timed challenges, and solution tracking.
- Enabled flexible gameplay through user input support, allowing users to enter custom puzzles and receive step-by-step, auto-generated solutions.

### Fake News Detection Using ML

- Built a **machine learning model** to classify news articles as real or fake, training on a large, labeled dataset using supervised learning techniques.
- Applied advanced data preprocessing techniques like **tokenization, stop word removal, stemming, and TF-IDF vectorization** to enhance data quality.
- Experimented with and evaluated multiple algorithms including **Logistic Regression, Naive Bayes, and SVM**, selecting the best-performing model with 90% accuracy.
- Developed a user-friendly interface to accept live news text, providing real-time predictions and insights into news authenticity, enhancing usability and application scope.

## Education

**Rivier University**, Nashua, United States

MS in Computer Science | GPA 3.96/4.0

08/2023 – 05/2025

**JNTUH**, Hyderabad, India

B.Tech in Computer Science | GPA 8.6/10.0

06/2018 – 05/2022