

# Meghana Chevva

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## SUMMARY

Passionate Full-Stack Software Engineer with over 5+ years of experience in designing and building scalable web applications. Proficient in **C++**, **AngularJS**, **React.js**, **JavaScript**, **TypeScript**, **HTML**, **CSS**, and modern development tools like **Webpack** and **Vite**. Skilled in crafting dynamic user interfaces and seamless system integrations using **RESTful APIs** and **Websockets**. Experienced in backend development with **Node.js** and **Nest**, and in optimizing cloud-based deployments using **AWS** services like **EC2**, **S3**, **Lambda**, **RDS**, and **DynamoDB**. Adept at automating **CI/CD** pipelines with **Jenkins** and **Docker**, significantly reducing release cycles and improving deployment efficiency. Committed to employing **Agile** methodologies, actively engaging in **Scrum** teams, and collaborating with cross-functional groups to deliver solutions that drive customer satisfaction and operational excellence. Passionate about **Test Driven Development** and writing **testable** and **maintainable code** using **Jest**.

## RELEVANT EXPERIENCE

### The University of Texas at Arlington

Arlington, TX

*Research Assistant - Web Developer*

*Jan 2025 - Present*

- Orchestrated the development of a VR streaming platform using **Next.js** for server-side rendering, **Angular** for dynamic user interfaces, and **React** with **Redux** for state management. Integrated **GraphQL** for efficient data management and **Node.js** to enhance server-side operations, focusing on adaptive bitrate streaming to improve the VR experience.
- Implemented **Vite** for rapid development cycles and hot module replacement, enhancing productivity. Implemented robust security measures including **Cross-Origin Resource Sharing (CORS)**, **Content Security Policy (CSP)**, and defenses against **Cross-Site Scripting (XSS)** to ensure user data security. Developed comprehensive testing frameworks using **Jest** and **Cypress** to guarantee application reliability and performance, complemented by **continuous integration and deployment (CI/CD)** practices to maintain quality and security standards.
- **Tech Stack:** **Next.js**, **Angular**, **Node.js**, **GraphQL**, **Jest**, **Cypress**, **React**, **Redux**, **Vite**

### The University of Texas at Arlington

Arlington, TX

*Student Assistant - Web Developer*

*Apr 2023 - Jul 2024*

- Spearheaded the development of a state-of-the-art portfolio management solution at **OIT - EPMO** division, harnessing a dynamic tech stack encompassing **Python**, **AWS**, and **TypeScript**. Championed the design and deployment of front-end solutions using **React.js** and back-end services with **Node.js** and the **Express.js** framework, increasing tool efficiency and functionality.
- Actively contributed to enhancing user experience by resolving issues, introducing novel features, and crafting intuitive dashboards for the tool. Engaged in seamless collaboration with cross-functional teams to gather insights, prioritize tasks, and deliver solutions that exceed stakeholder expectations, promoting continuous advancement and innovation within the organization.
- Integrated **Search Engine Optimizations(SEO)** best practices to improve the tool's visibility and user engagement, further enhancing the overall user experience and aligning with digital marketing strategies.
- **Tech Stack:** **Python**, **JavaScript**, **TypeScript**, **Node.js**, **AWS**

### NCR Atleos

Hyderabad, India

*Software Engineer*

*Jan 2020 - Dec 2022*

- Led the development of the **Scalable Cheque Processing Module 2** for the **NCR Activate Enterprise Product**, utilizing **C#**, **.NET**, and **Node.js** for backend solutions and **Angular**, **React**, **JavaScript**, and **TypeScript** for frontend development. This involved crafting scalable, robust solutions for complex financial transactions including single and multi-cheque processing, integrating customer feedback, and adhering to **SLAs** to ensure high client satisfaction and seamless user experiences.
- Collaborated with Software Architects to successfully implement and test **NCR APTRA** on **Scalable Deposit Module 1 and 2**; effectively enhanced system functionality by identifying and rectifying critical front-end and back-end bugs in **React**, **Angular**, and **C#**, boosting operational efficiency and customer satisfaction.
- Scripted over 500 automated backend test cases using **Java**, **NUnit**, and the **Robot Framework** to assess and ensure critical backend functionalities and database interactions, significantly reducing manual testing efforts and enhancing system reliability and performance. For frontend testing, implemented **Jasmine**, **Karma**, and **Jest** to thoroughly evaluate user interface behavior and performance, further ensuring the robustness and reliability of the system.

- Developed and implemented a comprehensive suite of automated testing frameworks using tools such as **Cypress**, **Auto It**, **Robot Framework**, and **Selenium**. This effort significantly boosted the ability to detect defects early and expedited the resolution process, ensuring that the applications remained robust and performed reliably under various conditions. This strategic implementation not only improved the quality assurance process but also contributed to a more agile and responsive development cycle.
- Established **Continuous Integration and Continuous Delivery (CI/CD)** pipelines utilizing **GitHub Actions** and **Jenkins**, which facilitated swift identification of disruptive changes and enabled proactive troubleshooting. This setup ensured consistent and reliable delivery processes by automating builds, tests, and deployments, thereby minimizing downtime and accelerating development.
- **Tech Stack: C++, C#, .NET, Java, Node.js, Angular, React, JavaScript, TypeScript, NUnit, JUnit, Jasmine, Karma, Auto It, Robot Framework, Selenium, SVN, GitHub, Jenkins**

## ADDITIONAL EXPERIENCE

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### The University of Texas at Arlington

Graduate Teaching Assistant

Arlington, TX

Aug 2024 - Dec 2024

- Mentored and guided 60 undergraduate and graduate students in mastering advanced **Artificial Intelligence** concepts, leading to a 15% improvement in overall class performance, as reflected in midterm results. Supported research in **Data Mining** and **Deep Learning**, focusing on advanced **algorithm design**, **data structures**, and **analytical techniques** to extract meaningful insights from complex datasets.

## PROJECTS

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### Digital Thesis Repository System

<https://github.com/meggitt/Digital-thesis-Repository-System>

- Played a key role in a team of 6 developing a cloud-based platform with hierarchical roles for CRUD on academic theses, leveraging **RESTful APIs** built with **JavaScript**, **jQuery**, **Node.js** and **Express**, and a user-friendly interface powered by **React** and database by **MySQL**.

### Crypt It

<https://github.com/meggitt/Crypt-It>

- Streamlined secure file encryption and decryption with a web app using **AES-256 encryption**, **OAuth** for authentication, and **RESTful APIs** for seamless functionality, powered by **Node.js** and **MongoDB** for efficient data management.

### Insight ML

<https://github.com/meggitt/InsightML>

- Designed a highly adaptable **machine learning** prediction tool utilizing **Python**, **scikit-learn**, **NumPy**, and **pandas**, seamlessly integrated with **Streamlit** for an interactive user experience.

### Movie Search Engine

<https://github.com/meggitt/ElasticSearch-Movie-Search-Engine>

- Created a movie search engine with publicly available data using **Python** and **Streamlit** for the frontend, with **Elasticsearch** for efficient indexing and retrieval, and **Sentence Transformers** for embedding movie descriptions.

### File Upload/Download using Java RMI

<https://github.com/meggitt/JavaRMI>

- Built a client-server model using **Java Remote Method Invocation (RMI)**, enabling **microservices-based remote communication** and secure file handling.

## EDUCATION

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### The University of Texas at Arlington

Master of Science in Computer and Information Sciences; CGPA: 4.0

Arlington, Texas

Jan 2023 - Dec 2024

### CMR College of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering; CGPA: 3.53

Hyderabad, India

Aug 2016 - Sep 2020

## SKILLS

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C++, JavaScript, TypeScript, Java, AngularJS, Node.js, Nest, React.js, Next.js, HTML, CSS, SCSS, Tailwind CSS, Responsive UI, Sass, RESTful Services, GraphQL, Websockets, Webpack, Vite, Jenkins, Docker, Kubernetes, Git, GitHub, Jest, Selenium, NUnit, JUnit, Cucumber, Jasmine, Cypress, Playwright, AWS (EC2, S3, Lambda, RDS, CloudFormation, DynamoDB, Elastic Beanstalk, API Gateway, IAM, Cognito, Amplify), Azure, MongoDB, MySQL, NoSQL, PostgreSQL, Agile, TDD (Test Driven Development), BDD (Behavior-Driven Development), Linux, Ubuntu, macOS, UML, Design Patterns

## CERTIFICATIONS

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### AWS Certified Developer - Associate

Credential ID: 05a821b5866c40488c4a367098c982ab

Valid Until: Jan 2028