

# ALEKYA PALADUGU

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## EDUCATION

**California State University, Sacramento, CA, 3.8/4**

Aug 2022 – Expected Dec 2024

Master of Science in Computer Science

**Jawaharlal Nehru Technological University, Hyderabad, India**

Aug 2014 - Apr 2018

Bachelor of Technology in Information Technology

## TECHNICAL SKILLS

<b>Languages:</b>	JavaScript, Typescript, HTML5, CSS3, SCSS, Python, Java, C
<b>Database Management:</b>	SQL (Microsoft SQL Server, PostgreSQL, MySQL, SQLite), NOSQL (Redis, MongoDB)
<b>Frameworks:</b>	Angular, NgRx, Node.js, Express, React, jQuery, Flask, SQLAlchemy, Bootstrap, Npm, Yarn, Webpack
<b>E-Commerce Platforms:</b>	Spartacus, SAP Hybris
<b>Cloud Technologies:</b>	Azure (AZ-900 Microsoft Certification), AWS, Docker
<b>Soft Skills:</b>	Leadership, Critical Thinking, Team Management, Communication

## EXPERIENCE

**Office of Water Programs, Sacramento, CA**

Oct 2023 – Present

Software Engineer

- Developed website from **scratch** for the State Water Board of California for detection of PFAS chemical in water using **React**, **Material UI**, and **Tailwind CSS**, improving user interface consistency.
- Created high-performance REST APIs with **Python**, **Flask**, and **MSSQL** utilizing **SQLAlchemy** to optimize database operations for improved efficiency and scalability.
- Improved SQL Server join operations and **boosted database query efficiency by 60%** through the implementation of **indexes** on frequently queried columns, enhancing overall feature performance.
- Proposed and implemented the **Render Prop design pattern and custom hooks**, significantly enhancing code reusability and maintainability across the project.

**Accenture, Hyderabad, India**

Application Development Senior Analyst

Dec 2021 – May 2022

- Led** the development of Heineken Mexico storefront playing a pivotal role in Sprint Planning and estimation of User stories following Agile Principles.
- Participated in digitalizing Heineken B2B enterprise using **SAP Commerce Cloud Solution** enabling advanced CRM and delivered engaging shopping experiences across multiple channels (web, tablet and mobile).
- Migrated Intel Web Order Management (WOM) legacy storefront to **Spartacus Angular Storefront** and leveraged the SAP Commerce Cloud **CMS** tool, **SmartEdit** for page content providing personalized customer experience.
- Mentored and guided** 2 junior developers, performing thorough code reviews to uphold best practices and coding standards.
- Collaborated** closely with product managers and key stakeholders to define and prioritize project requirements, driving alignment and execution for a development team of 7 members.

Digital Tech Developer Analyst

Nov 2020 – Dec 2021

- Spearheaded the development of Single Page Applications using HTML5, CSS3, and JavaScript, with expertise in **Angular and React frameworks**, enhancing user experience and application performance.
- Participated in **agile development processes**, including sprint planning, daily stand-ups, and retrospective meetings, which improved team collaboration and project delivery timelines.
- Created a global stylesheet (colors, dropdowns, search dropdowns, favorites, links, forms) for maintaining consistency across pages of websites that led to a **reduction in duplication of code by 60%** and improved code reuse.
- Achieved a 50% boost in page speed** by eliminating redundant AJAX API calls, implementing lazy loading of images, refactoring code, and compressing resources using tools like Webpack.

Associate Software Engineer

Nov 2018 – Nov 2020

- Developed MEAN and MERN applications** during training, enhancing skills in JavaScript frameworks and improving code quality.
- Implemented pages using JavaScript, jQuery, and AJAX calls to APIs, improving user interaction and page load times.
- Debugged code and pushed defect fixes, ensuring high performance and reliability in the software.

## CERTIFICATIONS

**Microsoft Certified: Azure Fundamentals**

Issued by Microsoft | [Dec, 2020]

Demonstrated foundational knowledge of cloud services, including Azure architecture, security, and cloud concepts.

## COURSEWORK

Programming Language Principles, Computer Systems Structure, **Advanced Algorithms Design and Analysis**, Data Analytics and Mining, Human Computer Interface Design, Machine Learning, **Advanced Database System Design**

## PROJECTS

**FlowMail: An Email Assistance Add-in for Students with Anxiety (JavaScript, Flask):**

[Github Link](#)

An email assistant outlook add-in to support students in drafting academically appropriate emails. Leveraged large language models (LLMs), Yeoman generator to create the add-in and provided templates for frequently asked questions.

**Multi-Label Text Classification of toxic comment dataset (BERT, Graph Neural Networks):**

[Github Link](#)

Designed the base model of a paper that uses Multi-label Text classification using Attention based Graph Neural Network. Improved the base model accuracy by implementing BERT transformer on the same dataset by 0.5%.

**CRUD Operations on Redis Enterprise Cloud (Redis, JavaScript, Flask, Redis Object Mapper):**

[Github Link](#)

Implemented a dashboard using JavaScript, chart.js for showing the analysis of FIFA world cup dataset. Prepared GET, POST APIs using Flask for CRUD operations and used ORM to update the Redis dataset.