

# Zain Ali

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## Education

BS Computer Science

**FAST-NUCES**

September 2020 - June 2024

## Professional Summary

Full Stack Developer with a Computer Science degree and expertise in React, Node.js, Chrome Extension and Puppeteer. Proven experience in developing MERN stack applications, including a scholarship platform and Facebook Marketplace tool, and integrating real-time data with React Flow. Skilled in enterprise solutions with Azure, Active Directory, Google Workspace, and API integrations for user management and web traffic analysis.

## Skills

- **Programming Languages:** Javascript, TypeScript, C++,
- **Web Technologies:** React.js, Material UI, Redux.js, Node.js, Electron.js, Puppeteer, Socket.io, React Flow, Chrome Extensions, Next.js
- **Database Management:** MongoDB, MySQL, PostgreSQL
- **Enterprise Solutions:** Azure, Active Directory, Microsoft Server, Graph API, Google Workspace

## Professional Experience

Full Stack Developer

*Techmutator*

June 2023 -present

- **Full-Time Developer (July 2024 – Present)**
  - Led the development and deployment of enterprise solutions utilizing Azure and Active Directory (LDAP queries and Single Sign-On with ADFS).
  - Integrated **Google Workspace** APIs for effective user management and streamlined enterprise processes.
  - **Designed and developed Chrome Extensions** for real-time data collection, leveraging **WebSockets** and **React Flow** for visualization, while utilizing content scripts to intercept web page activity, enforce restrictions like blocking copy-paste, and implement other custom functionalities.
  - Utilized **ELK.js** for advanced graph visualizations, enhancing data analysis and presentation.
  - Managed deployment and server setup on **Linux**, ensuring robust and efficient operations.
- **Internship (June 2023 – June 2024)**
  - Developed a **Facebook Marketplace** automation tool for managing vehicle posts (create, update, delete) using **Node.js** and **React**.
  - Implemented **Puppeteer** for automating web interactions and data scraping from Facebook Marketplace.
  - Built a desktop application with **Electron.js**, including automatic updates using **Electron Updater**.
  - Integrated **React** with **Electron.js** for a seamless desktop application experience.
  - Developed backend solutions with **Node.js** for processing vehicle information from FTP servers and integrating with the Facebook Marketplace automation.
  - Worked on various management projects with **React**, enhancing UI and application functionality.

Scholarship Recommendation Project

*FAST NUCES*

September 2023 - May2024

- Developed a MERN stack-based platform for recommending scholarships.
- Employed **Puppeteer** for scraping scholarship-related feeds and data from LinkedIn, Twitter, and a dedicated scholarship portal.
- Implemented content-based filtering algorithms to match and recommend relevant scholarships to users based on their interests and keywords.

Event Management System Developer

*FAST NUCES*

March 2024 - April 2024

- Collaborated closely with a team, enhancing skills in teamwork, project management, and addressing production-related challenges.
- Gained valuable experience in **React** and **Node.js**, including practical insights into real-world application deployment and maintenance.

## Related Courses

Object Oriented Programming  
Web Programming

Data Structures  
Information Security

Design and Analysis of Algorithms  
Database Management