

# Aadesh Seshadri

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## Experience

### Velocity Clinical Research

#### Software Engineer

June 2021- Aug 2022

- Spearheaded the Development of data-driven web application and rest APIs using React, TypeScript, NodeJS, and ExpressJS, responsible for 80% time liberation on the client side.
- Took a lead role in the development process, and managed a team of 3 software engineers to deliver a react web application from the ground up to UAT within 4 months.
- Played an important role in implementing serverless technology (Lambda) and CI/CD pipelines in Azure resulting in up to 96% cost savings for the company.
- Liaised with team members to understand and translate business requirements to software requirements.

### Trier Health

#### Software Engineer (Co-op)

Aug 2020- May 2021

- Implemented unit tests with 100% coverage for all codebases using Jest and integration tests for APIs using Sinon to enable test automation, ensuring high product quality.
- Interpreted React, material UI, and assisted in maintaining web applications.
- Gained Expertise in GitHub commands, sonarlint, Azure DevOps, and Test Automation.

### Verticle Technologies

#### Data Science (Intern)

Feb 2019- Dec 2019

- Developed an OCR model development using deep learning CNN and OpenCV to extract medical data with 97% accuracy.
- Integrated OCR model with Amazon Textract, automating document processing via AWS SDKs and APIs for large volumes of documents, enabling digitization of medical data, resulting in 40% less manual data entry and cost savings.

## Projects

### Secure Chat App - Academic Project (React, Socket io, NodeJS, MySQL, Diffie Hellman)

- Developed a secure chat application with end-to-end encryption, ensuring that all conversations are protected from potential eavesdropping or interception.
- Implemented chat-wise authentication, allowing users to verify the identity of their chat partners before chatting.

### CAHU Project - Academic Project (C#, MSSQL, PHP, HTML)

- Been a part of developing a student registration module for the university to facilitate fee payment verification and timetable allotment including database design
- Included robust and hassle-free UI which facilitates timetable selection was provided to the students

### Multiplayer Puzzle Game- Passion Project (React, Socket io, NodeJS)

- Developed a real-time multiplayer puzzle game using React, Socket.io, and Node.js, showcasing strong proficiency in full-stack web development.
- Implemented WebSocket communication with Socket.io to enable seamless real-time interactions among multiple players, ensuring a dynamic gaming experience.

## Skills

**Programming:** Java, JavaScript (ES6), React, NodeJS, TypeScript, Express, Python, SQL

**Web Technologies:** HTML, CSS, RESTful API design and integration

**Testing:** Unit testing, Test Automation (Jest, Robot Framework)

**Cloud Services:** AWS Lambda, AWS EC2, AWS S3, AWS Pinpoint, CloudFormation, Sendgrid, Twilio

**Tools:** Git, GitHub, Azure DevOps, Docker

## Certifications & Activities

- Modern React with redux - Stephen Grider
- CCSS - The Complete Guide 2023 (incl. Flexbox, Grid & Sass)
- Big Data Engineering with Hadoop and Spark - E&ICT Academy IIT Roorkee

## Education

Missouri University of Science and Technology

Dec 2023

**MS Computer Science**

**GPA: 3.25/4.0**

ICFAI Institute of Higher Education

May 2021

**BTech Computer Science Engineering**

**GPA: 3.6/4.0**