

## PARIK KAPADIA, M.S.

Champaign, Illinois | parikkapadia21@gmail.com | 217.974.5908 | [linkedin.com/in/parik-kapadia-273298127/](https://www.linkedin.com/in/parik-kapadia-273298127/) | [github.com/pkapadia9871](https://github.com/pkapadia9871) | US Citizen

### SOFTWARE ENGINEER

*Building cutting-edge apps at scale*

Versatile software engineer with more than 5 years of experience across domains like scientific programming and more recently full stack app development. Thrives in fast-paced, technologically progressive environments.

### HIGHLIGHTED PROJECTS

*Self-started initiatives to analyze phenomenon with industry-leading software engineering techniques.*

**Movie Data App** | 08/2023-10/2023 | [Link](#)

- Developed **backend** API to store movie and user data using Node.js runtime environment and Express.js framework handling 10+ API calls per day and supporting 10+ users. Created a REST API for sending requests for movie and user data to the server in JSON data format. Set up database in NoSQL (MongoDB) for movie and user datasets and integrated it with REST API using Mongoose. Tested REST API endpoints using Postman. Enhanced data security and validation by adding username and password authentication features using Passport.js. Deployed app backend to Render web hosting service.
- Developed client-side **frontend** for app using React.js and integrated it with the backend API for fetching data. Incorporated functionalities for users to sign up, log in and out, search for, filter and view details of movies, add them to favorites and delete them, display user details, update and delete account and routing to navigate between viewing pages. Applied Bootstrap to replenish user interface (UI) styling. Deployed frontend to Netlify web hosting service.

### TECHNICAL SKILLS

**Languages:** Python | JavaScript | SQL

**Backend Frameworks:** Node.js | Express.js | MongoDB

**Frontend Frameworks:** React.js | React Native | Angular

**Databases:** SQL | NoSQL

**Cloud:** AWS | Azure | GCP

### PROFESSIONAL EXPERIENCE

**Data Analyst** | Zions Bancorporation | Remote | 07/2021 to 01/2022 | Contract

- Wrote and ran scripts** in R and SQL queries to process and manipulate very large datasets.
- Created dashboards** using R Shiny to present, analyze and visualize metrics from very large datasets.

**Scientific Programmer** | Wolfram Research | Champaign, IL | 01/2017 to 12/2020

Developed and tested functions with high-level programming for Mathematica product in Algorithms Research and Development team. Assessed functions' performance and presented findings to leadership.

- Validated functionality of 30+ advanced mathematical and statistical functions in Mathematica** by coding test suites of 20K+ black box test cases. Researched and translated problems from 100 textbooks into high-level code, resulting in **boosting reliability from 90% to 100% during release cycles of Mathematica** versions 11 and 12. Recognized by COO for improvement efforts.
- Implemented packages for new and existing functions**, including Fourier and Laplace transforms to verify accuracy by coding 1K test cases and modified to enhance versatility.
- Authored high-level prototype code for 10+ complex mathematical functions.** Pending addition in later Mathematica releases.

### EDUCATION

**Full Stack Web Development Program** | CareerFoundry | Remote | 2023

- Worked** on projects for full-stack software engineering such as building backend APIs and client-side frontends for apps and integrating them for consumer production.

**Master of Science in Statistics** | University of Illinois at Urbana-Champaign | Champaign, IL | 2019 to 2020

**Bachelor of Science in Electrical Engineering** | University of Illinois at Urbana-Champaign | Champaign, IL | 2016 to 2018