Jeremy Kurian

201-300-7358 | jck44@njit.edu | jeremykurian.com | github.com/jerkur22

EDUCATION

New Jersey Institute of Technology   Newark, NJ
Bachelor of Science in Computer Science   *Sept. 2022 –Expected May 2025*
- Albert Dorman Honors Scholar, GPA: 4.0
- Courses: Data Structures and Algorithms, Operating Systems, Compiler Design

EXPERIENCE

Course Assistant — Intro to Computer Science   Jan 2023 — Present
New Jersey Institute of Technology   *Newark, NJ*
- Conducting 1.5-hour lab classes on Python, Java, recursion, inheritance, polymorphism, classes, etc., for a group of 40+ students on a weekly basis
- Facilitating weekly recitation hours to provide additional support and guidance to students in course concepts
- Assessing and grading homework assignments, providing valuable feedback to enhance students' understanding and proficiency in Java and Object Oriented Programming

Research Fellowship Intern   Jun 2023 — August 2023
New Jersey Institute of Technology   *Newark, NJ*
- Researched historical patient care practices in mental asylums, focusing on the Ottoman Toptasi Asylum
- Developed and trained a supervised learning model using Random Forest classifier to assess patients' mobility, impulsivity, and sociability based on symptom severity
- Achieved high accuracy rates using strategy: mobility (73.91%), impulsivity (82.61%), and sociability (86.96%) using a 75-25 train-test split
- Utilized JSON data with generative AI techniques to create a large dataset of hypothetical patient symptoms, collaborating with psychiatric professionals
- Integrated the machine learning model into a Unity simulation, enabling the creation of patients with diverse behavior
- Published abstract and presented in symposium as part of a sponsored fellowship program by NJIT and Honors College

Software Development Intern   Jun 2021 – Jun 2022
Parent Matterz   *Teaneck, NJ*
- Updated static WordPress HTML/CSS website for 20% increase in traffic after PBS-NJ display with a testimonial page for past successful users of site
- Assisted in development of new site using ReactJS along with better visual transitions to gain more traction and for future development
- Worked with a team of three interns through Agile and Scrum project management with daily scrums and weekly sprints
- Addressed potential sections of site which previously confused parents and students in process of utilizing site with clients

EXTRACURRICULAR

Webmaster, Teacher   Sept 2022 – Present
Kids Who Code   *Newark, NJ*
- Introduce young children in Hawthorne, NJ to the tech field through teaching interactive Scratch lessons weekly
- Use Next.js and Contentful CMS to design and implement a new website to professionally exhibit club
- Direct programming committee meeting bi-weekly to teach Git and give tasks for site

PROJECTS

LastMile App | *React Native, Expo, Geoaplify, Bing Maps API*   **github.com/LastMileApp/LastMileApp**
- Won **Best Freshman Award** at HackNJIT 2022 with over 200 participants (devpost.com/software/lastmile-ict7k6)
- Aimed to solve cost of deliveries in the last mile which account for over 50% of the costs
- Implemented an app prototype where a user can enter in a destination and possible deliveries for the package can be chosen
- Send requests to API to get current user location and display directions to deliveries through Bing Maps API, while updating map on screen

TECHNICAL SKILLS

Languages: Java, C++, Python, SQL, JavaScript, HTML/CSS
Frameworks: React.js, Next.js, TailwindCSS, Node.js, Express.js
Backend: MySQL, Firebase Firestore
Developer Tools: Git,Github, Heroku