

Sohaib Qureshi

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🐙 <https://github.com/sohaibq914>

Education

Purdue University

Bachelor of Science in Computer Science (GPA: 3.81 / 4.00), Dean's List

Expected May 2026

West Lafayette, Indiana

- **Relevant Coursework:** Java OOP, Python Data Engineering, C Programming, DSA
- **Clubs:** SURGE, Google Dev

Experience

CS Undergraduate Research Assistant

Computational Genomics

Jan 2024 – Present

West Lafayette, Indiana

- Cleaning and organizing large-scale genomics data using Pandas and Numpy
- Testing out different LLMs such as ChatGPT, LLaMA, and Gemini to assist with filtering relevant data
- Creating a comprehensive database with gene expression under various stages of drug treatments
- Training a ML model to predict the RNA transcription affects of a particular drug

Mathnasium

Lead Instructor

June 2022 – May 2023

Avon, Indiana

- Guided 100+ different K-12 students through their own separate math journeys
- Administered and graded all variations of assessments
- Managed several other instructors to most efficiently assist every student

Projects

Yelp Camp | Node.js, Express.js, MonogDB, Mongoose, Cloudinary – <https://yelp-camp-lszt.onrender.com/campgrounds>

- Developed Yelp Camp, a website for campground reviews, using Node, Express, MongoDB via Mongoose
- Engineered full CRUD functionality for campgrounds and reviews
- Implemented user authentication and authorization utilizing cookies and sessions
- Enhanced website security through data validation and sanitization to mitigate Mongo injection and XSS attacks

Hitech Instruments | HTML/CSS, Bootstrap, AOS.js, magnify.js – <http://www.hitechinstrument.us/>

- Developed a ecommerce website for a relative using Node, Express, MongoDB via Mongoose
- Engineered full CRUD functionality for products and reviews
- Implemented user authentication and authorization with admin only actions
- Added infinite scrolling and pagination to improve performance
- Integrated PayPal for secure online payments, enabling seamless financial transactions on the platform.
- Used various libraries, including React.js, magnify.js, AOS.js, Bootstrap to enhance user experience
- Deployed the website through Heroku and used GoDaddy for the domain

Personal Portfolio | React.js, Next.js, Tailwind – <https://portfolio-six-cyan-84.vercel.app/dashboard>

- Developed a responsive and interactive portfolio website using Next.js and React
- Implemented smooth animations and transitions with Framer Motion, creating a visually appealing user interface
- Styled components efficiently with Tailwind CSS, ensuring a consistent and responsive design system

Santa's Workshop | Java, Swing

- Created a marketplace for Christmas gifts
- Utilized Java Swing for better user experience
- Incorporated server-client with concurrency implementation

Technical Skills

Languages: Python, Java, C, C++, R, JavaScript

Technologies: Node.js, Express.js, React.js, Next.js, Tailwind, Bootstrap, Pandas, Matplotlib, Numpy, Tensorflow, MongoDB, Mongoose, SQLite

Concepts: Cookies, Sessions, Cache Memory, Cryptography, Security, Databases, Concurrency, API