

SHABAB HUSSAIN

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PROFESSIONAL SUMMARY

I am a full-stack software engineer with a proven track record of developing and implementing successful applications for clients. I am a dedicated learner with a passion for mentorship who is looking to bring my skills to organizations with a global reach that share similar values.

SKILLS

- **Languages:** JavaScript/TypeScript | Python
- **Front-End:** Bootstrap | CSS3 | HTML5 | React | Tailwind CSS
- **Back-End:** Flask | Django | Django REST Framework | Express | GraphQL | Node.js | REST API
- **Deployment:** Heroku | Netlify
- **Other:** Docker | Git | GitHub | GitHub Actions | PostgreSQL | Prisma | PyTest | Selenium

PROJECTS

DocFinder [[GitHub](#) | [Live Site](#)] Full-Stack Application

Technologies: Bootstrap, Django, Heroku, PostgreSQL, Python

- Developed a full-stack application using Django and PostgreSQL where patients can search for physicians in various locations/specialties, view physician biographies, and check if physicians are accepting their insurance or accepting new patients
- Integrated functionality for authorized users to add new physicians or delete/edit existing physicians
- Implemented user authentication/authorization and registration to improve application security
- Designed a responsive layout using Bootstrap to provide improved mobile experience

ICD-10 API [[GitHub](#) | [Live Site](#) | [API Documentation](#)] Full-Stack Application

Technologies: Django, Django-REST-Framework, Heroku, JavaScript, PostgreSQL, Python, SwaggerUI

- Developed a REST API that extracts resources from a PostgreSQL database to provide clients with International Classification of Diseases (ICD) codes, diagnostic categories, and diagnoses using Django-REST-Framework's browsable API
- Applied search, sorting, and pagination to provide users with more specific resources
- Implemented user authentication/authorization to improve application security

Flasky Chat [[GitHub](#) | [Live Site](#)] Full-Stack Application

Technologies: Bootstrap, Flask, Flask-SocketIO, JavaScript, Python

- Developed a real-time chat application using Flask and Flask-SocketIO where users can create chat-rooms or join existing chat-rooms with their unique room code
- Improved functionality via end-user testing feedback to provide users with a more intuitive and streamlined experience
- Designed a responsive layout using Bootstrap to provide improved mobile experience

EXPERIENCE

Full-Stack Software Engineer (Freelance) October 2024 - Present

Outlier AI

Technologies: Artificial intelligence (AI), JavaScript, machine learning (ML), Python, React, PyTest

- Reviewed JavaScript and Python code produced by AI models for issues in instruction following, executability, and correctness
- Directly modified problematic JavaScript and Python code produced by AI models for guided improvement via reinforcement learning from human feedback (RLHF) after large language model (LLM) failure
- Collaborated with team members to identify methods to produce LLM failure for efficient and fast workflow
- Generated testing scenarios via JavaScript and Python unit testing frameworks (eg, PyTest, Chai/Mocha) to

produce robust code used in RLHF

Administrative Assistant

June 2020 - August 2020

Texas Tech University Health Sciences Center Department of Surgery

Technologies: Matplotlib, NumPy, Pandas, Python, Sublime IDE, Tkinter

- Developed an analytic program with an agile development environment to evaluate fiscal year data, reducing analysis of ~2,500,000 data cells to less than 2 minutes
- Demonstrated program features to 35 executive leaders during the annual business development meeting
 - As a result, corresponded with TTUHSC's Department of Obstetrics/Gynecology to discuss how Python could be implemented for their strategic needs

Graduate Teaching Assistant

August 2018 - May 2019

Texas Tech University Health Sciences Center School of Medicine

Technologies: Adobe Captivate, Google Sheets, JavaScript

- Collaborated with faculty to launch interactive learning modules used by ~25% of first-year medical students
- Expanded education curriculum by coordinating with faculty and physicians to develop written protocols for medical student practice via training mannequins
- Coordinated with faculty and fellow teaching assistants to guide medical students in proper dissection technique, achieving an overall evaluation score of 4.5/5.0
- Organized and led biweekly lecture review sessions for medical students over 9 consecutive months, achieving 50-75% attendance rate

CERTIFICATIONS

Professional Scrum Master I (PSM I)

May 2024

Issued via Scrum.org

COMMUNITY AND LEADERSHIP

JavaScript/React Mentor, Code the Dream

February 2024 - Present

- Educate adult learners in effective application of JavaScript and React through personalized 1:1 mentor sessions and group sessions of up to 10 students
- Responsible for asynchronous code review and feedback of 3-5 students' weekly assignments
- Prepared and presented a lesson on web-scraping to adult learners via an interactive learning session to foster an advanced understanding of web development and best practices, which was attended by 20 people

Contributor, Virtual Coffee

January 2024 - Present

- Engaged in bi-weekly software engineering forums, discussing various topics with 5-10 industry professionals per session
- Generated comprehensive meeting notes to summarize key discussion points, articles, and resources

Contributor, Devs Discuss

December 2023 - Present

- Organized and led weekly meetings for junior developers on topics including Docker, linting/testing, web-scraping, error handling, test-driven development (TDD) with 5 entry-level developers per session
- Researched and distributed resources for members on topics including interview preparation, resume improvements, technical tutorials, and job-market trends

EDUCATION

Master of Business Administration, Health Organization Management

August 2020

Texas Tech University Rawls College of Business (GPA: 3.92/4.00)

Master of Science, Biomedical Sciences

May 2019

Texas Tech University Health Sciences Center (GPA: 3.67/4.00)

