Akshat Jain

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Portfolio • LinkedIn • GitHub

EDUCATION

University of California, San Diego **09/2021–06/2025**

B.S. Computer Science, Major GPA: 3.85 *San Diego, CA*

- Courses: Object Oriented Programming, Comp. Programming, SWE Tools, Discrete Math, Linear Algebra, Multivariable Calculus, C/Assembly, Statistics, Adv. Data Structures, Computation Theory, Software Engineering, Algorithm Design

SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, C, C++, HTML, CSS, ARM-32 Assembly, MATLAB, R, LaTeX
- **Libraries/Frameworks:** React, NodeJS, NextJS, Tailwind CSS, REST API, AWS, Processing, OpenAI API, Slack API, Spotify API
- **Tools:** Git, GitHub, JUnit, Vercel, GitHub Pages, WordPress, Wix, Figma, Yarn, JavaDocs, VSCode, HTTP Requests

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER INTERN **07/2023–Present**

Glean *Palo Alto, CA (Remote)*

- Co-managed team of 5 interns, prioritizing best code practices, efficiency, and aided interns in debugging/troubleshooting
- Streamlined development for interns by establishing software architecture for ChatGPT plugin that accesses 4 workspaces
- Optimized accuracy of plugin by benchmarking Slack API calls, with channel.messages being more accurate 100% of time
- Directed Python to process 10+ queries from GPT-4, determine the API call for Slack, and parse relevant data for GPT
- Enhanced relevance of ChatGPT queries by adjusting GPT-4 model with 20+ instructions, dictated behavior for prompts

SOFTWARE ENGINEER INTERN **06/2019–07/2019**

SCIO Technologies *Palo Alto, CA*

- Accomplished root cause analysis for 20+ Java methods of chrome extension by developing exhaustive JUnit tests
- Debugged with 4-5 JUnit tests per function by running, adjusting them, reporting failed tests, reducing error by 10-15%
- Documented effectively through JavaDoc generation, listing 3 descriptive factors for each test, peers found it descriptive

ADMINISTRATIVE INTERN **11/2020–02/2021**

SoFlo Tutoring LLC *South Florida, FL (Remote)*

- Optimized upload process by 75% by creating Java alrogithm to sort 150+ course videos, allowing for videos to be grouped
- Proposed and implemented 4 front-end changes that improved blog UI and readability for 10+ course blog pages
- Accelerated payment process for company by 50%**,** computing rates for tutors with Java algorithm that handles Excel data

PROJECTS (more projects linked above in portfolio)

Large Language Model Text Analysis **08/2023–Present**

- Designed software architecture for NodeJS system that provides an LLM-based analysis of a political speech to user
- Developed flagship feature: JavaScript file that extracts text link, webscrapes using Google Search API, conveys both the text and relevant information to Open AI's gpt-3.5-turbo model, receives thorough analysis, and sends to front-end
- Steamlined performance by architecturing internal REST API to handle 2-3 requests from client webapp through AWS
- Innovated unique Python script that web scrapes article for 2 HTML tags, efficiently extracing 50+ links in one process run

Spotify API Playground **08/2023–Present**

- Produced with React + Tailwind CSS, displays 110+ data points from 6+ Spotify API endpoints, using NextAuth API Routing
- Established a Spotify Authorization system using NextAuth, allowing 25 users to sign into Spotify on website to access info

React/Tailwind CSS Portfolio **08/2023–Present**

- Achieved a fluid design through Figma, Tailwind CSS, researching 10+ existing portfolios, and receving user feedback
- Produced efficient React website with effective component use by formulating 3 sets of dynamically produced pages

Netflix Algorithm **03/2019–04/2019**

- FIRST PLACE in 150 student CS class for most accurate movie recommender, 84.5% accuracy for users without ratings
- Formulated Java, JUnit tests to accurately process 100+ past ratings and calculate review predictions for 1000+ users

AWARDS & INTERESTS

- Two-time 2nd Place for FIRST Robotics Regional Competition, OpenCV Python for robot's autonomous computer vision
- Interests: Experimenting with coffee, weightlifting, socializing, analyzing Christopher Nolan movies, drum and bass music