

# Ali-Taabesh Sayyed

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## SUMMARY

Software Engineer with over a year of experience in full-stack development, pursuing a Master's in Computer Science at Rice University. Fast learner and problem solver with strong analytical and interpersonal abilities. Skilled in time management and client collaboration, consistently delivering results that surpass expectations.

## SKILLS

### Technical Skills

- Programming Languages: C, Java, Go (Golang), JavaScript, TypeScript, Python, HTML, CSS, SQL
- Frameworks & Tools: React, Django, Angular, Git, GitHub, N8N (Workflow Automation), Docker, Kubernetes, Virtual Machines, Google Cloud Platform, Google App Scripts, vim, PostgreSQL, REST APIs, gRPC, Agentic Frameworks, AI-Agents
- Development: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Functional Programming
- Other: HTTP Networking, Debugging, Problem-Solving, Analytical Abilities, Collaborative Teamwork

### Information Technology

- Operating Systems: Microsoft Windows, Mac OS X & Linux (Ubuntu & Kali)
- Microsoft Office (Word, PowerPoint, Excel), Google Suite (Docs, Slides, Sheets), Adobe (Premier, Photoshop, After Effects)

### Communication & Interpersonal

- Excellent communication skills, persuasive messaging, storytelling, active listening, conflict Management Skills
- Team player with a positive attitude, confident self-starter, entrepreneurial and risk-taking ability

## EXPERIENCE

### Software Engineer- BRAIN AI

Nov 2024 – Present

- Architect and implement data pipelines using voice AI solutions, reducing manual client processes by ~80%, leveraging our Golang-based microservices.
- Develop automated workflows, frontend interfaces, and built custom testing tools—fully adopted by customer departments.
- Independently mastered complex backend systems, delivered custom automation solutions, and managed direct client communications to ensure satisfaction.

### Software Engineer Intern - Legal Pro System

Aug 2024 – Nov 2024

- Worked on full-stack development, enabling lawyers to efficiently manage clients, cases, and communications.
- Developed a real-time chat system using Django and Angular, delivering a WhatsApp Web-like user experience and architected to support 1,000+ concurrent users.

### Biomedical Nano-Devices Research Assistant/ Biology TA

June 2018 – May 2021

- Conducted experiments for wearable nano-sensors, supporting biomarker detection studies published in peer-reviewed journals.
- Curated content and led engaging Biology classes, recognized by students and faculty as a top-performing TA.

## PROJECTS

Developer Portfolio: <https://www.alitsayyed.com>

### Web Development: [AI Website Builder](#)

- Comprehensive web application that frontend code using AI. Microservice architecture orchestrated through Docker. Built with a Golang backend (Hexagonal DDD), Temporal workflow orchestration, custom Python-based AI agent service (FastAPI), and Next.js. Implemented gRPC for efficient frontend-backend communication and REST APIs for seamless AI agent integration.

### Low Level Programming

- Built a network packet analyzer in C capable of intercepting and analyzing real-time network traffic to monitor data transmission patterns and protocol usage.
- Designed and implemented a custom Unix shell in C with command parsing and built-in system call functionality.

### Data Structure and Algorithm Implementations

- Implemented advanced algorithmic solutions including an A\* search-based puzzle solver, percolation analysis using union-find data structures, and optimized nearest neighbor search with k-d tree spatial indexing.
- Completed Data Structures and Algorithms summer [workshop](#) at the University of Texas at Dallas.

## EDUCATION

Rice University – Master's of Computer Science

August 2025- May 2027

University of Texas at Dallas - B.S. Biochemistry (4.0 GPA Summa Cum Laude)

Aug 2018 - May 2022

## AWARDS

Dean's List, Richardson, TX

Aug 2018 – May 2022

- Maintained top 10% GPA in the School of Natural Sciences and Mathematics.

AES Distinction Scholarship, Richardson, TX

- Awarded a full-ride scholarship to high school students with competitive grades.