SARAH A. YU
Software Engineer

Creative, detail-oriented full-stack software engineer with 2 years of experience in application design, development, testing, and deployment. Seeking a software engineer position in an innovative organization where I can leverage my skills to deliver high-quality solutions.

WORK EXPERIENCE

Software Engineer   *Aug 2023 – Present*
Resilient Coders   *Boston, MA*
- Developed responsive and dynamic full-stack web applications, incorporating user authentication, REST APIs, and manual and automated testing (unit, integration, e2e).
- Built and maintained databases, ensuring data security and scalability, leading to a 40% improvement in query response times.
- Established test automation strategies, decreasing manual testing time by 50%.
- Trained and deployed an AI chatbot, projected to generate significant cost savings by optimizing internal business workflows related to employee onboarding and support.

Projects:

dnaMe (Full-Stack Engineer)   dnaMe.up.railway.app
- Designed and developed a web application to analyze users' DNA for genetic predisposition to Alzheimer's disease.
- Extracted data from DNA files over 630,000 lines long, and interpreted genotypes and Alzheimer's risk, ultimately presenting findings in an easily comprehensible manner.
- Built appointment booking system between users and genetic counselor accounts.

Ascend Notes (Full-Stack Engineer, QA Engineer)   ascend-notes-app-client.fly.dev
- Managed a team of 6 in constructing a web application for note management, allowing users to create, edit, and delete notes.
- Integrated and automated unit, integration, and end-to-end testing, achieving 100% and 90% coverage on the client-side and server-side, respectively.

Nourish (Front-End Engineer)   nourish.up.railway.app
- Led a team of 4 in creating an app to connect Philadelphians with community fridges.
- Added interactive map, detailed fridge information, and community messaging board.
- Employed UI/UX design principles and created UI components in React, enhancing user engagement and ease of interaction with the platform.

Academic Tutor   *Mar 2021 – Aug 2023*
Various Clients   *Boston, MA*
- Taught customized lessons to strengthen subject comprehension and critical thinking.

Founder and President   *Aug 2017 – May 2021*
Carnegie Mellon University Science Olympiad   *Pittsburgh, PA*
- Directed an organization of over 100 members in hosting science competitions for thousands of youth across the nation, promoting equitable access to STEM education.
- Raised over $40K from sponsors like General Motors.
- Received awards for educational outreach and organizational excellence:
    Gelfand Student Educational Outreach (2020)
    Outstanding Student Organization Program (2019)

Research Assistant   *Sep 2017 – Mar 2019*
Carnegie Mellon University   *Pittsburgh, PA*

CONTACT

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github.com/xsarahyu
xsarahyu.github.io/portfolio

EDUCATION

B.A. Biological Sciences
Carnegie Mellon University
Aug 2017 – May 2021
- 3.57 GPA, High Honors
- Courses: Principles of Computing, Fundamentals of Programming

SKILLS

Programming Languages:
- JavaScript, Python
- SQL

Front-End Development:
- HTML, CSS, jQuery
- Bootstrap, Tailwind
- React, Vite, Flowbite
- AJAX, Axios

Back-End Development:
- Node, Express, EJS
- REST API, Postman

Databases:
- MongoDB, Mongoose
- MySQL

Data Visualization:
- NumPy, Matplotlib

Testing:
- Jest, Vitest, Cypress

Operating Systems:
- Windows, WSL
- Linux (Ubuntu)
- macOS

Other:
- AWS, Docker
- Git, GitHub
- GitHub Actions
- Netlify, Fly.io, Railway
- Figma, Miro
- UI/UX design
- Project management

CERTIFICATIONS

Responsive Web Design
freeCodeCamp – Aug 2023