

Srinivasan Pandiyan

Chicago, IL | spandiyan.dev@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

Software developer with a research-oriented foundation in teamwork and problem-solving. Skilled in utilizing cognitive insights with technical expertise to build effective software solutions. Excited and ready to deliver impactful results in the industry.

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, HTML, CSS, Bash

Frameworks & Platforms: React, Node.js, Express.js, Next.js, Flask, Jinja, SQL-Alchemy

Web Technologies / Scripting Languages: AJAX, jQuery, Bootstrap, MATLAB, R

Cloud / DevOps: AWS, Docker, Terraform

Database & API: SQL, PostgreSQL, JSON, REST APIs

Tools / Testing: Command Line Interface (CLI), Git, GitHub, Jira, Jasmine, Jest, Pytest

Methodologies & Principles: Agile Development, Data Structures & Algorithms, Object-Oriented Programming (OOP), Test-Driven Development (TDD), CI/CD

Projects

Springboard Software Engineering Fellow

Chicago, IL

Urban Pulse | [Global City Comparison App](#)

Mar 2023 - Oct 2023

[Flask, Jinja, SQL-Alchemy, JavaScript, PostgreSQL]

- Achieved a 95% reduction in database latency by automating caching of frequently requested resources.
- Implemented autocomplete, input sanitization, user authentication, multi-view comparisons, and favoriting functionalities in the application.
- Developed and launched a Python app utilizing Teleport's API metrics to compare global cities.

Springboard Software Engineering Fellow

Chicago, IL

Ganzkörper | [Fitness Tracker with Analytics](#)

Nov 2023 - Mar 2024

[React, Node.js, Express.js, PostgreSQL]

- Developed a React and Node.js single-page web app with client-side routing via React Router.
- Integrated workout tracking and in-site, time-series analytics with admin & user authentication.
- Maintained 70% test coverage by leveraging Jest for unit testing.

Work Experience

DevOps & Full-Stack Developer

Los Angeles, CA

Hack for LA Volunteer

Oct 2024 - Present

- Develop and maintain full-stack applications and manage CI/CD pipelines to automate deployments.
- Optimize cloud environments (AWS, Docker) for scalability and performance with DevOps best practices.
- Collaborate in agile teams, conducting code reviews and contributing to civic technology projects.

Research Technologist II

Chicago, IL

Northwestern University | Swanson Lab

Aug 2021 - Jan 2023

- Implemented MATLAB automation for dual-camera recording to capture real-time mouse behavior, optimizing high-resolution videos for computer vision processing.
- Led a year-long research study using biochemistry and molecular biology techniques.
- Communicated results of experimental progress weekly to the Director of the Northwestern University Interdisciplinary Neuroscience (NUIN) PhD program.

Education

Bowdoin College

Brunswick, ME

B.A in Neuroscience

Aug 2017 - May 2021