Jaedon Spurlock

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EDUCATION

California State University, San Marcos　　　　　　　　　　　　**Expected Graduation May 2026**
Bachelor of Science in Software Engineering　　　　　　　　　　　　　　　　GPA: 3.95/4.00

EXPERIENCE

Welfie
Software Engineering Intern | May 2024 – Present
- Build automated UI, E2E, and Unit test suites by using Python, Selenium, Jest, and TypeScript
- Deploy and manage a CI/CD pipeline on Bitbucket by using Google Cloud, Docker, and Linux configurations
- Improved security of payment transactions by integrating the Stripe API
- Design and integrate connection to Walgreens, CVS, and Walmart RESTful APIs
- Create admin panel for end users to manage SKUs in their store by using React, TypeScript, and PostgreSQL
- Refactor, debug, and implement website production code

Google Developer Student Club
Technical Lead | May 2024 – Present
- Fabricate workflows by setting up code standards, code review, automated build processing and testing
- Deliver test-driven development through automated testing with Jest, Selenium, and GitHub Actions
- Implement club website by using NextJS, React, and TypeScript

PROJECTS

Reside | Feb 2024 – April 2024
- Built real-estate website by using TypeScript, NextJS, React, TailwindCSS, and various npm packages
- Fetched 2,000+ listings by integrating RESTful APIs from the backend constructed with Java Spring
- Delivered user auth with credentials providers, OAuth providers, email verification, and password recovery
- Leveraged protected page routes by controlling NextJS middleware, JWT tokens, and user sessions

Routify | Jan 2024 – Mar 2024
- Simulated city pathfinding by developing an interactive website with React, NextJS, and ThreeJS
- Queried cities and names efficiently by leveraging the Nominatim API and Overpass API
- Reduced API call loads by 60% by caching city data with Amazon S3
- Created RESTful API to maintain 1,000+ cities by using NextJS API routing and server actions

Signal Reception and Processing | June 2024 – Present
- Record weather data from NOAA (15, 18, and 19) polar orbiting satellites by utilizing SDR technology
- Set up transmission parameters and tuning frequencies by implementing SDR# software
- Predict satellite visibility by employing N2YO for real-time satellite tracking and orbital visualization
- Conduct post-processing of recorded signals by decoding received APT signals to generate weather images

Four-Wheeled Car | April 2024
- Programmed motion control on a Raspberry Pi by using pigpio C++ library to manage PWM signal processing
- Leveraged SDL and ROS libraries for real-time joystick control between controller inputs and motor outputs
- Incorporated Dual Bridge Motor Drivers and a DC-DC converter to manage power supply and motor operations

SKILLS

- **Programming:** TypeScript, Python, C++, CSS, HTML, JSON, Yaml
- **Libraries & Frameworks:** React, Selenium, NextJS, NodeJS, Vite, Redis, Redux, Memcached, SDL, ROS, Jest
- **Databases:** PostgreSQL, MongoDB, Amazon S3
- **Technologies:** Git, Postman, Windows, Linux, AWS, Vercel, Google Cloud, Docker
- **Courses:** Data Structures & Algorithms, Software Design & Development, Database Management Systems