PRASHANTH VAMANAN SRINIVASAN

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Education

Master of Science in Computer Science   **Aug 2022 - May 2024**
University of Colorado Boulder, Boulder, CO   GPA: 3.96 / 4.0

Integrated Master of Science in Software Systems   **Jul 2014 - May 2019**
PSG College of Technology, Coimbatore, India   GPA: 8.72 / 10

Technical Skills

Languages: Java, JavaScript, TypeScript, C, C++, Python
Web Technologies: HTML, CSS, jQuery, React.js, Node.js, AJAX, RESTful APIs, JSON
Frameworks: Angular, Spring Boot, Express.js, Next.js, Tailwind CSS, Bootstrap, Unity
Databases: MySQL, PostgreSQL, MSSQL, MongoDB, Redis
Tools: Git, Docker, Kubernetes, Elasticsearch, Kibana, Prometheus, Grafana, Apache Maven, Mulesoft, Keycloak
Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP)

Professional Experience

Software Engineer Intern   **May 2023 - Aug 2023**
MatrixCare Inc   Bloomington, MN (Remote)

- Reduced access time to patient and customer identity information across four product verticals from weeks to days through a real-time metrics dashboard using React, TypeScript and Next.js
- Enhanced project security and provided consistent user experience, leading to a 20% increase in user engagement by implementing OAuth2.0 authorization using Okta
- Optimized application performance, resulting in a 30% improvement in page load and response times utilizing React.js server components and Next.js server-side rendering

Embedded Software Research Intern   **Feb 2023 - Apr 2023**
NASA Colorado Space Grant Consortium   Boulder, CO

- Enabled a deeper understanding of the lunar surface temperature and material composition through an RF subsystem using SPI and I2C protocols for data exchange between several Arduino Atmega328 microcontrollers
- Increased the reliability of the transmitted data packets by minimizing transmission time and memory overhead through research and implementation of error detection and correction techniques with C++
- Encouraged collaboration and participation of 30 student teams worldwide in the Great Lunar Expedition for Everyone (GLEE) program through interactive weekly workshops and live office hours to resolve software challenges

Senior Full Stack Software Engineer   **Jun 2019 - Jun 2022**
Vassar Labs   Hyderabad, India

- Streamlined the supply chain operations of a leading US manufacturing firm, leading to a 20% increase in operational efficiency by integrating reusable Angular components with graph database APIs designed with Node.js and SPARQL
- Spearheaded a team of five developers in revamping the legacy user management system with custom Keycloak flows, two-factor authentication and authorization with JWT and CSRF tokens, leading to a 15% uptick in user engagement
- Provided granular access control for a single customer to manage users across multiple products through database schema modifications and implementation of business services with Java, Spring Boot and MySQL
- Improved developer productivity by 40% across all projects through the design and development of a reusable table library with Angular and TypeScript, supporting sorting, filtering, pagination and reordering of rows and columns

Projects

Network Extension (NetX) (Link)   **Jan 2023 - May 2023**

- Accelerated the efficiency of search and rescue operations from months to days by collaborating with the US Army in building a portable and rapidly deployable mesh network system with Raspberry Pi, Reticulum and C++
- Decreased the time taken to identify network and system related issues by integrating the ability to collect and visualize live observability metrics with React.js, Prometheus and Grafana

Sports Court Booking App (Link)   **Nov 2022 - Dec 2022**

- Designed and developed UI components using Angular, enabling users to reserve courts at different sporting venues
- The components were integrated with containerized microservices in GoLang and orchestrated with Kubernetes

Achievements

- **Vassar Labs Top Performer 2021** - Designed, programmed and delivered critical features using Angular, TypeScript, Java and Spring Boot across several state government projects involving the education and social welfare sectors