

PRAJWAL SOMENDYAPANAHALLI VENKATESHMURTHY

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EDUCATION

Illinois Institute of Technology

Master of Computer Science, **GPA: 4.00/4.00**

Areas of Interest: Advanced Database Organization, Computer Networks, Big Data Technologies

Chicago, IL

01/2023 - 12/2024

JSS Academy of Technical Education

Bachelor of Information Science, **Cumulative GPA: 3.33/4.00**

Bengaluru, KA

06/2015 - 06/2019

RESEARCH EXPERIENCE

Research Student — RES-MATCH Fall 2023

Illinois Institute of Technology

Chicago, IL

09/2023-12/2023

- Collaborated with Professor Dr. Nik Sultana on *Distributed Computation for Light Propagation Modeling* project. Revamped simulation efficiency through optimization of the framework, harnessing multiple programmable networking hardware devices.
- Pioneered the creation & integration of virtual C functions within switches, facilitating comprehensive packet analysis during simulations.

WORK EXPERIENCE

Certa

Mid Frontend Engineer

Saratoga, CA (Remote)

03/2022-11/2022

- Guided a team of engineers to successfully create Certa 2.0, a cutting-edge no-code Third-Party Risk Management (TPRM) Software Platform, from concept to completion.
- Spearheaded the implementation of in-house tools and enhanced test coverage for frontend components from 50% to 90%, leading to almost 70% reduction in post-release defects and enhanced overall product stability.
- Employed modern technologies and best practices, including JavaScript, TypeScript, ReactJs, React Flow and React Testing Library, to ensure the development of performant and scalable software.

Snapwiz Edutech India (acquired by GoGuardian)

Software Engineer

Bengaluru, IN (Hybrid)

08/2019-03/2022

- Implemented advanced performance optimization techniques, including front-end bundle optimization and route splitting, resulting in a remarkable 50% reduction in both application load time and bundle size.
- Played a pivotal role in the development of critical product features, including a sophisticated subscription module and playlist module, contributing to the product's functionality and user experience.
- Leveraged expertise in JavaScript, React.js, Node.js, Firebase, Jenkins, Elastic Search, MongoDB and Cypress to create custom integrations that met unique project requirements and exceeded customer expectations & elevated code quality by implementing rigorous unit testing practices, resulting in a 20% increase in code coverage.

PROJECTS

- **Neural Image Captioner** — Implemented a Neural Image Captioning model with Visual Attention in PyTorch, training on the COCO dataset for image-to-text transformations.
- **Personal Blog & Portfolio** — Created a webfolio with Next.js, featuring valuable insights and experiences. Supports EmailJS integration, Splitbee for analytics, Utterance for comments and deployed on Vercel.

SKILLS

Programming Languages & Runtime: C, C++, Shell Scripting, Python, Java, JavaScript, Node.js

Frameworks & Libraries: React.js, Vue.js, Svelte, Next.js, Express.js, PyTorch, RTL, Cypress, Figma

Database & Proxy: MySQL, PostgreSQL, Nginx, Redis, MongoDB, Prisma, Elastic Search

Cloud & Deployment: AWS (EC2, S3, CloudWatch, SQS, SNS), Vercel, Docker

Critical Thinking: Data Structures & Algorithms, Distributed Network Programming, System Design and Architecture

AWARDS, HONORS & POSITIONS

Graduate Student Assistant — Assisted in recruiting, onboarding, and maintaining records for new graduate students.

Student Assistant - Academic Coach (Fall 2023) — Illinois Tech

Best Employee Award 2021 — GoGuardian

Spot Awards (2019 and 2020) — Snapwiz — Recognized for contributions made to the Edulastic product.

Winners of Mulesoft-Cognizant DTO Makers Session 2018