Satvik Seeram

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LinkedIn | GitHub

EDUCATION

Georgia State University - Atlanta, GA   *August 2020 – December 2024*

Computer Science – *3.84*

Courses: Data structures, Software Engineering, Data Science, Design and Analysis, Programming Languages and Concepts, System level, Computer organization.

WORK EXPERIENCE

Software Engineer   *January 2022 - Present*

Georgia State University – *Atlanta, Ga*

- Cooperatively created a powerful student-alumni social networking platform in a team of three, aimed at boosting STEM primary students' career opportunities by addressing the networking limitations many alumni face on traditional platforms, benefiting over 50% of students.
- Architected both the frontend and backend of the platform using NextJS, leveraging prominent technologies like ReactJS and NodeJS, and successfully deployed it on the Vercel serverless environment.
- Established a seamless pipeline from Qualtrics survey data to the database, automating manual tasks by 100%.
- Employed AWS DynamoDB to architect and streamline database tables, resulting in a 40% improvement in data retrieval speed and enhancing overall system performance.
- Engaged over 10 meetings with beta testers and students to solicit feedback and enhance the app's user interface.

PROJECTS

Ds-Visualizer   *August 2021 - December 2021*

- Developed an innovative data structure visualizer utilizing Next.js, dynamically showcasing various operations while seamlessly integrating PostgreSQL for optimized storage of comments and replies.
- Enabled profound educational engagement by empowering over 150 students through the project's utilization by a respected Georgia State University professor.
- Secured sponsorship from Vercel, ensuring effortless project deployment on the cutting-edge platform enriched with premium pro features.
- Showcased an impressive track record with over 500 Git clones, 100 PRs, and 15 GitHub stars.

Portfolio   *January 2023 - Present*

- Engineered a tailored online platform using the Next.js framework for extensive frontend and backend development, empowering seamless sharing of a wide array of content, including LeetCode solutions, blogs, and more.
- Leveraged GitHub as a robust content management system, housing all resources while seamlessly integrating GitHub actions to enforce consistent content formatting of the markdown.
- Archived 30+ LeetCode challenges and committed to a daily upload schedule.
- Implemented Redis cache to enhance page loading speed, elevating overall user experience.

Exec-Lang   *November 2022*

- Conceptualized and created a dynamic programming language, embedding a cohesive lexical analyzer for precise interpretation.
- Spearheaded the implementation of TypeScript for language execution, reducing bugs and enhancing development efficiency.
- Thoroughly validated the language against LR(1) grammar, covering four distinct operation types: declarations, conditional statements, loops, and assignments.
- Showcased an adept grasp of language design, syntax analysis, and software development principles.

SKILLS

HTML, CSS, JavaScript, ReactJS, NextJS, EJS, Tailwind-CSS, Material-UI, Framer-Motion, NodeJs, ExpressJS, NextJS, NestJS, Flask, Cloudflare workers, Google Cloud Computing, AWS, Docker, Git, Nginx, TypeScript, JavaScript, Java, Python, Go.