Satvik Seeram

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EDUCATION

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

Computer Science – *3.82*

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

The Hacking School - Hyderabad, India   *May 2021 – October 2021*

Bootcamp in MERN stack

  Courses: JavaScript, TypeScript, CSS, ReactJS, ExpressJS, NextJS, MongoDB, Nginx, Docker, Git, Google Cloud Platform.

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 the app on the Vercel serverless environment.
- Established a seamless pipeline from Qualtrics survey data to the database, automating manual tasks by 100%.
- Introduce AWS DynomoDB, which resulted in a 40% improvement in data retrieval speed and reduced cost of operation.
- Engaged over 10 meetings with beta testers and students to solicit feedback and enhance the app's user interface.

PROJECTS

[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.

[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 educational engagement by empowering over 150 students through the project's utilization by a Georgia State University professor.
- Secured sponsorship from Vercel, ensuring effortless project deployment on the platform with premium pro features.
- Showcased an impressive track record with over 500 Git clones, 100 PRs, and 15 GitHub stars.

SKILLS

  Programming Languages: JavaScript, TypeScript, Java, Python, Go, HTML, CSS, Dart

  Technologies & Tools: ReactJS, NextJS, Material-UI, Tailwind-CSS, NodeJS, ExpressJs, Flutter, Flash, NestJS, Cloudflare, GCP, AWS, Docker, GIT, Nginx, CI/DC, Serverless-computing, Jest, PostgreSQL, MongoDB, S3 Buckets, React-Native, Expo, REST APIs, PrismaJS