Dilan Nair

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EDUCATION

Northwestern University   Graduating June 2024
Computer Science, B.S.   *Cumulative Major GPA: 3.8/4.0*

EXPERIENCE

Software Engineer Intern   Jun 2023 – Sep 2023
Apple   *Cupertino, CA*
- Worked on the Xcode Cloud Infrastructure team to improve access to production workloads.
- Built and documented an access management system for Kubernetes that can be used company-wide.
- Designed and built an extendable and configurable tool to tighten security.

Undergraduate Teaching Assistant   Mar 2021 – Present
Northwestern University   *Evanston, IL*
- Instructed students on operating systems, including practices in concurrency, scheduling, device drivers, and virtual memory, through development of a kernel in C.
- Created material and lectured on cloud computing and scalable software topics.
- Holding weekly office hours and grading course assignments.

Director, Software Developer   October 2022 – Present
WildHacks   *Evanston, IL*
- Maintaining management and authentication web systems and applications with various development technologies (Node.js, Express, React, MongoDB) to connect over 500 developers together to build quality software.
- Hosting an annual hackathon with students from around the country to learn, build, and share projects.

Software Engineer Intern   Jun 2022 – Aug 2022
Northwestern Mutual   *Milwaukee, WI*
- Designed solutions for delivery through an enterprise marketing platform involving large-scale email campaign distribution and data management.
- Built company tools by integrating external packages with internal data using Node.js, MongoDB, and Python.

Founder, Software Developer   Sep 2015 – Jul 2020
Voidstone Software   *Remote*
- Developed quality software—desktop applications, server backend, websites, and game add-ons.
- Established and managed a profitable online software store by communicating with dozens of customers and bringing ideas into reality with code.

PROJECTS

CRACO | *TypeScript, React, Babel, Webpack, Jest, PostCSS, ESLint*   May 2022 - Present
- Leading development of a large open-source JavaScript library downloaded over 2 million times per month with around 7,200 stars on GitHub.
- Managing hundreds of issues from developers around the world to ensure that the library is functional, stable, and bug-free.

Paper | *TypeScript, Python, React, React DnD, Tailwind CSS, Framer Motion*   Nov 2021 - Present
- Created and maintaining a course planning tool used by thousands of students and sponsored by the university.
- Parsed and storing large amounts of course and user data and implementing feedback-based features and changes.
- Using my custom authentication system to allow users to save their data to their accounts.

Authentication Infrastructure | *Node.js, OAuth 2.0, Express, MongoDB, Axios, JWT*   Mar 2021 - Present
- Designed a complete user authentication system following the OAuth 2.0 protocol.
- Developed a REST API to allow the client to communicate with the authentication server.
- Using a NoSQL database to store user and configuration data.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, C, C++, HTML, CSS, Kotlin, Go, Rust, Swift, SQL
Tools & Frameworks: AWS, DigitalOcean, Git, Unix Shell, Node.js, MongoDB, Kubernetes, React, React Native, Svelte