

# Dilan Nair

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## EDUCATION

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### Northwestern University

Computer Science, B.S.

Graduating May 2024

Cumulative Major GPA: 3.7/4.0

## EXPERIENCE

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### Software Engineering 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.
- Developed new, complete tools for the company by integrating external packages with internal data using Node.js, MongoDB, and Python.

### Undergraduate Teaching Assistant

Mar 2021 – Present

Northwestern University

Evanston, IL

- Instructing students on operating systems, including practices in concurrency, scheduling, device drivers, and virtual memory, through development of a kernel in C.
- Guiding students through C/C++ programming fundamentals and usage of the Unix shell.
- Holding weekly office hours and grading course assignments.

### Founder, President, Software Developer

May 2021 – June 2022

Software and Game Development Group

Evanston, IL

- Led and connected a group of 200+ aspiring computer scientists, UI designers, artists, game designers, and sound designers to build quality software as a team.
- Maintained management and authentication web systems, APIs, UIs, and complete automation systems with various development technologies (Node.js, Express, Git).

### 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

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### CRACO | TypeScript, React, Babel, Webpack, Jest, PostCSS, ESLint

May 2022 - Present

- Leading development of a large open-source JavaScript library downloaded about 1.8 million times per month with over 6,200 stars on GitHub.
- Managing hundreds of issues from developers around the world to ensure that the library is functional, stable, and bug-free.

### Plan Northwestern | 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 Northwestern University Department of Computer Science.
- 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

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**Languages:** TypeScript, JavaScript, Java, Python, C, C++, HTML, CSS, Kotlin, Go, Rust, Swift, SQL

**Tools & Frameworks:** AWS, DigitalOcean, Git, Unix Shell, Node.js, Express, MongoDB, React, React Native, Create React App, Svelte, Vite