Sachin Nair
Electrical and Computer Engineering
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Education

- **University of Texas at Austin** — Austin, TX
  B.S. in Electrical and Computer Engineering (Expected 2024) — *GPA: 3.6542*

Relevant Coursework

- ECE 312 Data Structures I
- ECE 422C Data Structures II
- ECE 360C Algorithms
- ECE 460N Operating Systems
- ECE 360P Distributed Systems*
- ECE 379K Computer Vision*
- CS 313E Software Design
- ECE 302 Electrical Engineering I
- ECE 306 Computation I
- ECE 411 Circuit Theory
- ECE 319K Embedded Systems
- M 325K Discrete Mathematics
- M 340L Matrices

Work & Professional Experience

- **Student Engineering Council** — Austin, Texas
  Backend Engineer — *June 2022 - Current*
  - **Description**: Building out an extensible and reusable **python3** backend infrastructure stack for applications needed by other engineering orgs. Such applications include calendars, websites, live stream services, and video embedding/playback. Relevant technologies include **React, MongoDB, and Amazon Web Services**.
- **Liquid Labs** — Austin, Texas
  Software Developer — *January 2022 - March 2022*
  - **Description**: Completed various software development tasks to provide tools and services to help upcoming startups grow. Worked on an authentication component in a **React** frontend environment for a banking application. Relevant technologies include **React, HTML, and python3**.
- **Growth Acceleration Partners** — Austin, Texas
  Software Engineering Intern — *June 2019 - August 2019*
  - **Description**: Redesigned the company website using **HTML**. Worked on an automation tool to import and catalog large quantities of sales leads, interfacing with the **Salesforce API**.

Personal and Academic Projects

- **Java**: Weather App using openWeather API, Chat Server-client chat room, Wordle generator and solver, and Language model using N-grams
- **Python**: Chess simulator and AI, Poker Game simulator, Matrix complex values calculator, text editor, and Sudoku solver
- **C++**: Customer Relation Machine, Maze generator and solver, Blink Compiler, Snakes and Ladders game
- **C**: Spellchecker, Shopping Cart, Bank Manager, Calendar, and Snake game
- **ARM Assembly (with C)**: Digital Lock, Traffic light simulator, 6 key piano with DAC, LCD Display driver and controller, and Othello game against a functional AI player on an M4 Micro controller.

Technical Skills

- **Proficient In**: Python, Java, C++, C, ARM Assembly, LTSpice
- **Experience In**: React, Android, git, html, AWS, Azure, Maven, Gradle, Solidworks, and Multisim