

# Balaji Kannan

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## EDUCATION

### Texas Christian University

Bachelor of Science, Computer Science

Activities & Societies: IEEE, ACM, Computer Science Society, Robotics and AI Club, Math Club

Expected May 2027

GPA: 4.0/4.0

## HONORS & AWARDS

Top 0.68%, Science Olympiad Foundation's Math Olympiad (India's Largest High School Math Exam)

Aug 2022

Award for Excellence in Computer Science, High School

Apr 2023

## SKILLS

**Technical Skills:** Python, JavaScript, C++, Java, HTML, CSS, SQL, TypeScript, React, Node.js, Next.js, Electron, Git

**Soft Skills:** Leader, Trilingual (English, Hindi, Tamil), Solution-Driven, Effective Communicator, Orator

**Interests:** Avid Reader, Guitar Novice, Swimmer

## EXPERIENCE

### Web Developer | JavaScript, React, Node.js, Vercel

Dec 2021 – Jan 2022

B V Innovations Pvt Ltd

New Delhi, India

- Only programmer in the company, **single-handedly** coded and deployed a **full-fledged** website from scratch
- Worked closely with an employer to **evaluate requirements**, securing complete satisfaction with delivered product
- **Reduced** production costs by **65%** compared to estimated costs using knowledge of industry tools
- Created visually appealing and **accessible user interface**, leading to an **increase** in calls from buyers by **23%**

### Student Researcher | Python, Pillow

Aug 2021 – Dec 2021

Sakura Science Program

Remote

- **Highly-selective fully funded** program by the Japan Science and Technology Agency
- Research and exchange program for **gifted STEM students** in high school and college
- **Combined** my programming expertise with teammate's physics expertise to explore and develop **innovative** methods for inscribing and **encoding** messages in radio waves for interstellar communication
- **Collaborated** and presented work to other peers and mentors in the program

## LEADERSHIP & ACTIVITIES

### Technical Project Lead, TCU Google Developer Student Club

Nov 2023 – Present

- **Head** technical projects and ensure **timely** and **quality** delivery of those projects
- Implement tech solutions to meet organizational needs
- Serve on the executive board of the club

## PROJECTS

### Website | TypeScript, React, Next.js, Tailwind CSS, Node.js, Markdown

Sep 2021 – Dec 2021

- Portfolio website with an interactive and visually appealing GUI for better site exploration
- Implemented dynamic webpage generation for posts
- Implemented tasks for compiling Markdown files to HTML/CSS

### Personalized Voice Assistant | Python, NumPy, BeautifulSoup, requests, Selenium

May 2022 – July 2022

- Created voice assistant to automate daily tasks with voice commands for my laptop
- Implemented custom web scraping algorithms to scrape specific sites for specific types of queries, often academic
- Wrote automation scripts to open apps, set reminders, log in to sites, and several real-world tasks

### Data Plotter | Python, Tkinter, Matplotlib, Pandas

Aug 2020 – Oct 2020

- Developed a program that can plot 7 types of graphs to make it easier to complete math and economics assignments
- Can read Excel and CSV files and easy to use for users without software development experience
- Feature-rich user interface gives the user complete control for adding custom labeling, changing themes, etc.

## CERTIFICATIONS

JavaScript Algorithms and Data Structures, freeCodeCamp

Sep 2022

Scientific Computing with Python, freeCodeCamp

Sep 2022

Divide and Conquer, Sorting and Searching, and Randomized Algorithms, Stanford University

Nov 2022