

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

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