

Balaji Kannan

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EDUCATION

Texas Christian University

Bachelor of Science in Computer Science

Aug 2023 – May 2027

Fort Worth, TX

HONORS & AWARDS

Top 0.68%, Science Olympiad Foundation's Math Olympiad (India's Largest Math Exam for High Schoolers) Aug 2022
Award for Excellence in Computer Science, High School Apr 2023

COURSE 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

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 **full-fledged** website from scratch
- Effectively communicated with an employer who lacked expertise in web technologies, securing complete satisfaction with delivered product
- Reduced production costs by **65%** using knowledge of industry tools
- Created visually appealing and accessible user interface, contributing to an increase in calls from buyers by **23%**

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 develop innovative methods for inscribing and **encoding** messages in radio waves for interstellar communication
- Co-wrote a paper and presented work to other students and mentors in the program

PROJECTS

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

Sep 2021 – Dec 2021

- A personal/portfolio website to display my skills and projects with an interactive and visually appealing GUI
- 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, login to sites, etc.

Data Plotter | Python, Tkinter, Matplotlib, Pandas

Aug 2020 – Oct 2020

- Developed a program that plots graphs to make it easier to complete math and economics assignments
- Reads excel and csv files to plot 7 popular types of graphs
- Feature-rich user interface gives user complete control for adding custom labelling, changing themes, etc.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, Java, HTML, CSS, SQL, TypeScript

Technical Skills: React, Node.js, Next.js, Tailwind CSS, Electron.js, Matplotlib, Tkinter, Vercel, MySQL, Git

Concepts: Object Oriented Programming, Data Structures, Algorithms

SOFT SKILLS

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

Hobbies: Reading Novels, Playing the Guitar, Swimming