

Balaji Kannan

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EDUCATION

Texas Christian University

Expected May 2027

Bachelor of Science, Computer Science & Economics (Minor in Mathematics)

GPA: 3.9/4.0

Relevant Coursework: Introduction to Programming, Techniques in Programming, Calculus II, Discrete Mathematics I

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

HONORS & AWARDS

Dean's Honor List, Texas Christian University

2023 - 2024

TCU Scholar, Texas Christian University

Fall 2023

Award for Excellence in Computer Science, High School

Apr 2023

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

Aug 2022

SKILLS

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

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

Interests: Avid Reader, Guitar Novice, Swimmer

EXPERIENCE

Conference Services Representative | Administrative, Critical Thinking, Teamwork

May 2024 – July 2024

TCU Conference Services

Fort Worth, TX

- Used strong communication skills to liaise between conference groups and TCU facility directors/service provider
- Participated as a cooperative, willful team member in the close-knit Conference Team
- Assisted in coordination and delivery of equipment and service arrangements

Community Assistant | Customer Service, Administrative, Critical Thinking

Aug 2023 – May 2024

Samuelson & Carter Halls

Fort Worth, TX

- Provided purple carpet standard of customer service through **exuding positive attitude**, problem-solving skills and anticipating resident needs
- Completed desk logs and lockouts following proper procedure and to **perfection**
- Organized events for residents in the hall, **actively engaging** them in the events as well
- Maintained a positive working relationship with all staff and residents

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