

Balaji Kannan

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EDUCATION

Texas Christian University

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

Expected May 2027

GPA: 3.62/4.0

SKILLS

Programming Languages: Python, JavaScript, Java, C++, HTML, CSS, JavaScript, SQL, React.js

Soft Skills: Solution-Driven, Problem Solver, Effective Communicator, Fast Learner, Passionate about Programming

Hobbies: Avid Reader, Guitar Novice

PROJECTS

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

- 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.

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

- 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, REST API, NumPy, BeautifulSoup, requests, Selenium*

- 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

Password Manager | *Python, MySQL, Tkinter*

- It is a GUI that stores passwords in a MySQL database
- Written in Python using the Tkinter GUI framework
- Uses PyMySQL API to run SQL commands on MySQL database

Bala Notes | *JavaScript, Electron, GUI, HTML, CSS*

- Bala Notes is an open source desktop app created for taking notes
- It uses a framework called Electron.js to write cross-platform desktop web applications
- The UI is extremely accessible, intuitive and beautiful. It works on a wide range of resolutions.

EXPERIENCE

Community Assistant | *Leadership, Administrative, Critical Thinking*

Aug 2024 – May 2025

Molly Reid Hall

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
- **Collaborated** and presented work to other peers and mentors in the program

RELEVANT COURSEWORK

Analysis of Algorithms	Data Structures	Computer System Fundamentals	Unix/Linux Administration
Computer Organization	Database Systems	Programming Language Concepts	Linear Algebra
Discrete Mathematics I & II	Calculus II	Elementary Statistics	Intermediate Microeconomics

HONORS & AWARDS

Faculty Scholarship & Student Grant	<i>Texas Christian University</i>
Dean's Honor List (<i>Fall 2023, Spring 2024</i>)	<i>Texas Christian University</i>
TCU Scholar	<i>Texas Christian University</i>
3rd Place in TCU Calculus Bee	<i>TCU Math Department</i>
Award for Excellence in Computer Science	<i>St. Mary's School</i>

VOLUNTEERING

Scribe For Students With Writing Challenges (<i>Aug 2018 - Aug 2022</i>)	<i>St. Mary's School</i>
Research Volunteer (<i>April 2023 - May 2024</i>)	<i>The Next Genius Foundation</i>

LEADERSHIP & ACTIVITIES

Technical Project Lead , <i>TCU Google Developer Student Club</i>	Nov 2023 – May 2024
<ul style="list-style-type: none">• Head technical projects and ensure timely and quality delivery of those projects• Serve on the executive board of the club	

CERTIFICATIONS

JavaScript Algorithms and Data Structures	<i>freeCodeCamp</i>
Scientific Computing with Python	<i>freeCodeCamp</i>
Divide and Conquer, Sorting and Searching, and Randomized Algorithms	<i>Stanford University</i>

OTHER WORK EXPERIENCE

Conference Services Representative <i>Administrative, Critical Thinking, Teamwork</i>	May 2024 – July 2024
<i>TCU Conference Services</i>	<i>Fort Worth, TX</i>

- 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 <i>Customer Service, Administrative, Critical Thinking</i>	Aug 2023 – May 2024
<i>Samuelson & Carter Halls</i>	<i>Fort Worth, TX</i>

- 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

Assistant Director & Head Script Writer <i>Leadership, Decision-Making, Communication</i>	May 2021 – Nov 2021
<i>St. Mary's School</i>	<i>New Delhi, India</i>

- **Lead and Managed** 225 students across different departments including cast and crew for school play
- Mediated creative difficulties and conflicts
- **Coordinated** different teams and departments to ensure smooth operation
- Learned an incredible amount on leadership through decision-making and **problem solving**