

# Akash

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Publication: Wiley Online Library

Project: <https://param-adventure.vercel.app/>

GitHub: <https://github.com/voidomin>

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## PROFESSIONAL SUMMARY

Full-stack developer (React, Next.js, TypeScript, REST APIs, PostgreSQL) and test-automation engineer (Python, Selenium, Postman, CI). Experienced in building scalable web applications and automated test frameworks that reduce defects, improve performance, and speed up releases.

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## TECH STACK SUMMARY

JavaScript, TypeScript, React.js, Next.js, HTML, CSS, PHP, FastAPI, REST APIs, PostgreSQL, Python, pandas, NumPy, Selenium, Pytest, Postman, Git, Docker, Linux, Jira.

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## WORK EXPERIENCE

### Program Coordinator & Web Developer, Abhyudaya

August 2025 – Present | Bengaluru, India

- Coordinate program activities, outreach, and stakeholder relations across community initiatives.
- Streamline program delivery and organise events and trainings for students and volunteers.

### Development Engineer, Merck

January 2024 – July 2025 | Bengaluru, India

- Built front-end and back-end features for Bio4C Process Pad using React, TypeScript, REST APIs, and PostgreSQL.
- Automated regression tests and workflows using Python and Selenium, reducing manual QA effort.
- Implemented APIs and UI features and collaborated with cross-functional teams to deliver product releases.

### Research Project, Indian Institute of Science (IISc)

June 2023 – December 2023 | Bengaluru, India

- Conducted computational research in structural biology and protein stability analysis.
- Published "In Silico Saturation Mutagenesis of CCDB" in the journal *Proteins: Structure, Function, and Bioinformatics*.

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## KEY ACHIEVEMENTS

- Reduced manual QA effort by creating Python + Selenium automation for key workflows at Merck.
- Designed and developed Abhyudaya's website to improve online outreach and information access for volunteers and donors.
- Built reusable TypeScript components and patterns that improved frontend development speed and consistency.
- Published peer-reviewed bioinformatics research on protein stability in a reputed international journal.

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## PROJECTS

### Param Adventures – Tourism Website

Personal / Freelance

Built a responsive tourism website using TypeScript and Next.js. Live: <https://param-adventure.vercel.app/>

- Implemented booking flows and modular TypeScript components for trip listings and enquiries.
- Integrated maps/APIs and optimised performance and accessibility for a smoother user experience.

### Abhyudaya Website – NGO Platform

Abhyudaya

Designed and developed the website <https://abhyudayakkss.org/> to present programs, volunteering, and donation information.

- Structured content for programs, centres, and contact flows to increase clarity for visitors.
- Improved discoverability of key information, supporting outreach and engagement for community initiatives.

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## EDUCATION

### M.Sc. in Molecular & Cellular Biology

MS Ramaiah University of Applied Sciences, Bengaluru, India | August 2022 – September 2024

GPA: 8.12

### B.Sc. in Biotechnology

Dayananda Sagar University, Bengaluru, India | July 2019 – May 2022

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## RELEVANT COURSEWORK / LEARNING

Data Structures and Algorithms, Web Development, Software Engineering, Database Systems, Object-Oriented Programming (OOP), Computer Networks, Basic Operating Systems.

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## AWARDS & PUBLICATIONS

- Published "In Silico Saturation Mutagenesis of CCDB" in *Proteins: Structure, Function, and Bioinformatics*.
- 3rd place in a hackathon conducted by Merck (team-based software development and problem solving).
- State government scholarship recipient through State Scholarship Program (SSP).
- 1st place in a poster-making competition at Dayananda Sagar University.

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## ADDITIONAL

References available upon request.