

# AKASH

DEVELOPMENT ENGINEER /  
BIOINFORMATICS

## CONTACT

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Portfolio:

<https://voidomin.github.io/resume-website/portfolio/>

## SKILLS

## PROFESSIONAL SUMMARY

Computational biologist and bioinformatics researcher with expertise in protein engineering, structural biology, and molecular simulation. Proven track record of publishing peer-reviewed research while developing robust full-stack software solutions for biotech applications.

## EXPERIENCE

### Development Engineer

Merck Life Science, Bangalore

January 2024 – July 2025

- Engineered Bio4C Process Pad—an analytics platform serving 18+ biotech clients (Lotte, Syngene), enabling bioprocess monitoring through data-driven decision making systems.
- Designed h-index clustering algorithm with elbow curve optimization, improving protein classification accuracy and reducing computational overhead by 35%.
- Developed REST API integrations with SQL-based analytics backend for real-time process insights.
- Tech stack: JavaScript, React, Next.js, Node.js, SQL, Python

### Research Intern (Student Researcher)

Indian Institute of Science (IISc), Molecular Biophysics Department

June 2023 – December 2024

- Conducted in silico saturation mutagenesis of CCDB protein using computational methods to predict variant effects and protein stability.
- Leveraged PyMOL for structural visualization, AlphaFold for protein folding prediction, and Rosetta suite for molecular modeling and energy calculations.
- Published research in Proteins: Structure, Function, and Bioinformatics journal, demonstrating novel protein engineering strategies.
- Used Linux bash scripting for bioinformatics workflow automation.

### Program Coordinator (Web Developer)

Abhyudaya (NGO)

August 2025 – Present

- Developing responsive web applications for nonprofit using HTML, CSS, JavaScript and Laravel backend.
- Implementing CakePHP-based backend systems for organizational management tools.
- Version control with Git/GitHub.

## PROJECTS

## EDUCATION

**Name**

Location