

Darshan P.

Bangalore, Karnataka

✉ drshnp@outlook.com | [GitHub](#) | [Portfolio](#) | [MathStackExchange](#) | [LinkedIn](#)

EDUCATION

Govt. College of Engineering, Jalgaon, Maharashtra, India
Bachelors of Technology in Mechanical Engineering

Aug. 2017 – Apr. 2021

WORK EXPERIENCE

Wolfram Alpha, Remote

Freelance Developer (Mathematica + L^AT_EX)

Aug. 2024 – Nov. 2024

- Built Mathematica algorithms and L^AT_EX templates for symbolic computations, cutting processing times by 25%.

ProHuman Technology Pvt. Ltd., Bangalore, India

Software Developer

Mar. 2024 – Jul. 2024

- Developed dashboards and automation scripts (Bash, Python) on Azure/GCP, reducing inefficiencies by 30% and saving 20 hrs/week.

Autodesk, Remote

Freelance Developer (Linux + Cloud)

Aug. 2023 – Dec. 2024

- Deployed and automated AWS/Azure solutions for Linux systems, boosting reliability and speeding incident response by 20%.

Tata Consultancy Services, Pune, India

System Developer (Python + SQL + Bash)

Jun. 2021 – Jun. 2023

- Built Python/SQL/Bash dashboards and reporting tools across EMEA/APAC, automating finance workflows and improving compliance.

GeoGebra, Remote

Module Developer Intern (Python + TypeScript)

Jun. 2020 – Dec. 2020

- Created Python scripts and tests for interactive geometry modules, enhancing performance and user engagement.
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SKILLS & OTHERS

Programming Languages: Assembly (x64 Architecture), BASIC, Bash, C/C++, Fortran, Go, Haskell, Java, JavaScript, Julia, LaTeX, Mathematica, Markdown, Python, R, Rust, Solidity, OCaml

Web Development: Apache, Bootstrap, CSS, Django, HTML5, Nginx Server, PHP, Tailwind

Data Analysis & Machine Learning: Matplotlib, NumPy, PyTorch, pandas, scikit-learn, SciPy, SQL, SymPy, TensorFlow

Version Control & Cloud: AWS, GCP, Git, MS-Azure

Operating Systems: Blockchain, CLI, GNU/Linux, Unix-like systems

Mathematics: Analytical Geometry, Calculus, Linear Algebra, Macroeconomics & Microeconomics, Number Theory, Special Functions

PROJECTS

PyPI Projects,

Topic: Collection of various projects developed and available on PyPI

- Explore my PyPI profile for projects including [Dropit](#), [Authf](#), [EnigmaCifra](#), and [Xpost](#), among others.

Web Development Projects,

Topic: Developed dynamic websites for [Bayesian Corp.](#), [Assembly Election Campaign](#), and [personal portfolio](#)

- Engaged in web development projects enhancing digital presence for various clients.

Halley's Comet Orbital Evolution,

Topic: Analyzed comet path and gravitational effects projecthalley.org

- Analyzed the trajectory and gravitational dynamics of Halley's Comet over successive orbits.
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RESEARCH & PUBLICATIONS

Quotient Function Summation,

Topic: Recursive formula for partitioning integers

- Developed a novel recursive approach to the classic problem of integer partitioning, providing a more efficient computation method and deeper insights into the number theory underpinnings of partitions.

Fundamental Theorem of Algebra,

Topic: Alternative proof focused on polynomials

- Presented an innovative proof of the Fundamental Theorem of Algebra using a less traditional method that emphasizes the geometrical and topological aspects of polynomials.

Mixed Traffic Impact on Roads,

Topic: Studied mixed traffic effects and dynamic units

- Analyzed the dynamics of mixed traffic flow on urban roadways, highlighting the interactions between different vehicle types and proposing solutions to optimize traffic management and reduce congestion.