

WORK EXPERIENCE

Software Developer — Google Summer of Code with The Julia Language

8th May ‘25 — Current

- I'll be building a graphical interface for drawing BUGS models for JuliaBUGS.
- JuliaBUGS is a graph-based probabilistic programming framework, inspired by the BUGS (Bayesian Inference Using Gibbs Sampling) language.
- GSoC 2025 [Proposal](#) | [Project](#) | [Blog](#)

Research Assistant — University of Cambridge (Remote)

10th May ‘24 — Current
<https://mlg.eng.cam.ac.uk/hong/>

- Developed and redesigned the Cambridge Machine Learning Group's official website, enhancing usability, navigation, and aesthetic appeal.
- Automated publication website generation, enabling dynamic author, topic, and yearly listings from a unified BibTeX source, recognized officially on the group's site (mlg.eng.cam.ac.uk/#footer).
- Built and implemented automated workflows for team page updates and global navigation using EJS, YAML, and shell scripting, significantly improving site maintainability.
- Optimized Continuous Integration and Deployment (CI/CD) pipelines using GitHub Actions and custom Bash scripts, reducing deployment time from over 1 hour to under 2 minutes (live results available at turinglang.org).
- Created integrated cross-site search functionality leveraging jq-based tooling.
- Developed and contributed to a benchmarking system for DynamicPPL.jl ([PR #346](#)); collaborated within a team, resulting in significant benchmarking improvements ([results](#)).
- Implemented various visualization tools in MCMCChains.jl, including Violin Plots, Energy Plots, and Prior/Posterior Predictive Check Plots, significantly enhancing usability and analytical capabilities for end users.
- Skills Utilized: Python, Julia, TypeScript, Shell Scripting, EJS, YAML, GitHub Actions, CI/CD, Quarto, Turing.jl, DynamicPPL.jl, MCMCChains.jl

SDE Intern — National Critical Information Infrastructure Protection Centre

1st April ‘25 — 30th Sept ‘25 (Current)

- 6 Months Onsite Internship at NCIIPC (Confidential Work)
- Working on confidential software infrastructure security project involving Windows GPO's and C#/PowerShell scripting.

Research Assistant — Vectorly LLC (Remote)

10th May ‘24 — 10th Aug ‘24

- 3 Months Remote Internship with Vectorly LLC as part of my RA contract with MLG Cambridge

Technical Content Writer — GeeksforGeeks (Remote Internship)

10th Jan ‘24 — 10th Jan ‘25

- Authored 23+ technical articles across domains including Python, C++, Git, Django, JavaScript, Julia, and more.
- Improved the quality, accuracy, readability, and clarity of two technical articles for a global audience.
- You can find all my articles here — <https://auth.geeksforgeeks.org/user/shravangoswamii/articles>

ACHIEVEMENTS

- Selected in **Google Summer of Code - GSoC 2025**
- Smart India Hackathon 2024 Finalist:** Developed a standalone Windows Hardening application (WPF & .NET), capable of creating, editing, and managing Group Policy Objects for National Technical Research Organization (NTRO).
- UTU Shark Tank Winner:** Won both 2023 and 2025 competitions at inter-university startup pitch competition.
- International Mathematical Olympiad:** Awarded Gold Medal at the state level (9th Grade).
- Featured by MLG Cambridge University:** Recognized on their official website ([See Footer](#)).

TECHNICAL PROJECTS

MLG Cambridge website — [Link](#) | MLG Publications website — [Link](#)

Python, Quarto, BibTeX

Aug ‘24–Oct ‘24

Turing.jl website — [GitHub](#) | Turing.jl docs website — [GitHub](#)

Quarto, Shell, EJS, SCSS

June ‘24–July ‘24

DynamicPPL Benchmarking — [GitHub](#)

Julia, Turing.jl, DynamicPPL.jl, Github Actions

March ‘25

All projects are listed here: shravangoswami.com/projects

SKILLS	LINKS
Technical: C++, Python, Julia, HTML, CSS, JavaScript, TypeScript, Shell/Bash scripting (sed, awk, grep, jq), GitHub Actions Languages: English, Hindi, Greek (Elementary) Frameworks & Packages: Turing.jl, MCMCChains.jl, DynamicPPL.jl, Django, Quarto, React.js, Franklin.jl, Flutter, Documenter.jl Tools: VS Code, Git, Sublime Text OS Familiarity: Ubuntu (WSL) & Windows	GitHub: shravangoswamii LinkedIn: shravangoswami CodeForces: shravangoswamii AtCoder: shravangoswamii Website: shravangoswami.com X/Twitter: shravangoswamii <i>Not quite active on social media!</i>

EDUCATION

Uka Tarsadia University (UTU), Bardoli, Surat—Gujarat

Bachelor of Technology in Computer Science and Engineering (Current - 6th Sem)

2022 — Expected Graduation: 2026
SGPA: 8.48, CGPA: 7.88

Extra-Curricular Interests: Nietzschean and Platonic Philosophy + Films & Shows by Fincher, Villeneuve, Tarantino, Scorsese Spielberg + One Piece by Eiichiro Oda!