

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](#) | [Work - DoodleBUGS](#)

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](https://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](https://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.
- You can find all my articles here — <https://auth.geeksforgeeks.org/user/shravangoswamii/articles>

ACHIEVEMENTS

- Selected in **Google Summer of Code - GSoC 2025**
- Codeforces: 1247 Max Rating - Pupil**
- 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 — [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](https://shravangoswami.com/projects)

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

EDUCATION

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

2022 — Expected Graduation: 2026

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

SGPA: 8.90, CGPA: 8.04

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