

# Mudit Somani

Software Engineer

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## Education

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**Birla Institute of Technology and Science, Pilani**, Bachelor (Hons.) in Computer Science      Oct 2022 – May 2026

## Experience

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**Summer SWE Intern**, Cockroach Labs – Bangalore, India      May 2025 – July 2025

Merged a production-ready feature into CockroachDB and owned the full development lifecycle, from initial design, testing and implementation to final merge and technical documentation

- Added an OpenTelemetry-compatible log sink for CockroachDB to standardize observability and enhance system interoperability.
- Introduced Protocol Buffers as a log serialization option, enabling a 20% reduction in network egress.
- Created a OpenTelemetry processor to redact sensitive logs on-the-fly, reducing network throughput by 50%.

**GSoC Contributor**, Google Summer of Code @ Dart      May 2024 – Sept 2024

Created applications and tools to improve developer experience for the Dart programming language ecosystem along with stress testing the dart2wasm compiler and FFI capabilities.

- Cross-compiled LLVM to make a WebAssembly version for libclang, enabling C/C++ source parsing and AST traversal directly in the browser without any servers or dependencies.
- Developed FFigenPad, a web app using SolidJS that generates Dart foreign function bindings from C headers entirely in the browser, without the need for any server-side processing.
- Developed Dart AST explorer, a web app that allows you to visualize and explore the Abstract Syntax Tree (AST) of Dart code snippets in real-time.

**Intern**, ByteLeap      July 2023 – Oct 2023

Interacted with multiple clients in a fast-paced environment to deliver software solutions on time.

- Developed a full-stack LMS system with an admin panel and WYSIWYG editor to help train English teachers using React, NextJS, Prisma, and CockroachDB.
- Built the SaaS platform for Athena copilot, a RAG-enabled AI assistant, using Clerk for authentication, NextJS, Sentry, Prisma and ShadCN UI Components.

## Publications

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**Continual-learning for Modelling Low-Resource Languages from Large Language Models**      Jan 2026

Santosh Srinath K, **Mudit Somani**, Varun Reddy Padala, Prajna Devi Upadhyay, Abhijit Das

[10.48550/arXiv.2601.05874](https://arxiv.org/abs/2601.05874) (EACL 2026 - European Chapter of the Association for Computational Linguistics)

## Projects

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**FFIgenPad**      May 2024 – Sept 2024

A web application that generates Dart FFI bindings from C header files directly in the browser using LibClang and WebAssembly.

- Also built libclang-wasm as a separate module.
- No server needed, runs completely in the browser.
- Has a mini file-system to manage multiple header files and dependencies.

## Activities

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### Mentor @ Google Summer of Code @ Dart

June 2025 – Sept 2025

Mentored an international student, providing technical guidance for the development of a terminal UI framework for the Dart programming language.

- Conducted rigorous code reviews for over 35+ pull requests, ensuring adherence to project architecture, security standards, and best practices.
- Managed the full project lifecycle, from initial proposal vetting and technical scoping to final delivery and documentation.

### President @ CRUX - the Coding Club of BITS Pilani, Hyderabad

May 2024 – May 2025

Overseeing operations of the programming and computing club of BITS Pilani, Hyderabad which is responsible for the advocacy of coding culture in the campus.

- Curated and led the development of 3+ open-source projects that were used by over 2000+ students on campus.
- Streamlined onboarding process to happen every 2 months instead of once every semester to better capture student interest and reduce onboarding friction.
- Organized workshops and mentored students on competitive programming, web development, and open-source contributions.

### Google Code-In 2019 - Finalist @ Google

Feb 2020

Contributed to the open-source ecosystem for the Julia Programming Language and other organisations, ending up in the world's top 174 contributors.