

# Shashi Gowda

Software Engineering ★ Product Design ★ AI Engineering

I love building beautiful products that users enjoy. I am a full stack developer with expertise in diverse aspects of computing: **AI engineering, user interfaces, performance engineering, distributed systems, and programming language development.**

I have a **PhD in computational science from MIT**, and have worked in the **industry for over 4 years**. I'm currently excited about the raw material of **large language models**.

I like a culture that ships often, focuses on the community it serves, and is grounded in market research.

shashi.biz ★ shashig@protonmail.com ★ +1 617-899-4295  
linkedin.com/in/gOwda/ ★ github.com/shashi

## Education



**Massachusetts Institute of Technology**

2018 Sep – 2024 May

**Ph. D in Computational Engineering and Mathematics**

**Thesis:** Symbolic-numeric programming in scientific computing

**Advisor:** Prof. Alan Edelman **GPA: 4.7/5**



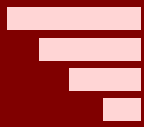
**Natioinal Institute of Technology Karnataka**

2010 Aug – 2014 Apr

**B. Tech in Information Technology**

**CGPA: 8.06/10**

# Work Experience



## Sailplane PBC

2024 Aug – now

### Senior AI Engineer

Developed a software engineering assistant. I worked on the full stack: UX design and engineering, Prompt Engineering, Agent Embodiment, Distributed services, and Backend.

**Stack:** Elixir, JavaScript, d3, OpenAI and Claude.



## Massachusetts Institute of Technology

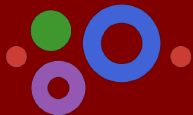
2014 Sep – 2018

### Graduate Research Assistant

Built tooling for differentiable programming and scientific computing. My thesis project **Symbolics.jl**, is the lingua-franca of the Scientific Machine Learning ecosystem in Julia, making it possible to build high performance numerical solvers and domain specific syntax without boilerplate.

Currently used by **70 dependent projects**.

**Stack:** Julia, JavaScript



## JuliaHub Inc

2016 Sep – 2018 Aug

### Principal Software Engineer

Built a high-performance, distributed analytical database, JuliaDB, achieving **2x** more performance in text parsing, **1.5-10x** query performance compared to pandas.

**Stack:** Julia, C, Python, Pandas



## CSAIL, MIT

2014 Sep – 2016 Aug

### Research Software Engineer

Built a distributed, out-of-core compute scheduler Dagger.jl used as a go-to parallel computing abstraction in the community. Built a distributed array framework on top of it. Built experimental UI frameworks for scientific computing users. First tool to innovate a server-side virtual DOM (now prevalent in modern frameworks like Phoenix LiveView.)

**Stack:** Julia, C, Python, Pandas