

!!! info inline end ""

```
<figure markdown="span">
  ![Image](assets/credits.png)
  <figcaption>Active Maintainers/Creators</figcaption>
</figure>
The project is maintained by two core developers who each own a unique
layer of the system.
```

Virtual Machine **VIREX** Assembly Language **SASM** Compiler **ORIN** Editor Support **VS Code** License **GPL3**

=== "Soham Metha"

!!! tip ""



{ width="120px"

style="border-radius: 50%;padding: 4px;"} }

```
> Role: Lead Developer <br>
> Modules Owned: VIREX VM, SASM Assembler, VS Code Extension, Docs

- Designed the VIREX Virtual Machine architecture.
- Developed the SASM Assembler and complete instruction set.
- Built tooling: AST visualizer, debug tools, and VS Code syntax
  extension.
- Authored all core documentation.
- Maintains the monorepo, versioning, and long-term roadmap.
```

```
!!! quote
```

```
    *"VIREX is a hands-on way to explore systems programming, not just  
study it."* <br>
```

```
    [![]](https://img.shields.io/badge/Language-C-blue)]  
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]  
(https://img.shields.io/badge/Project-VIREX-success)]() [![]  
(https://img.shields.io/badge/Project-SASM-success)]()
```

```
!!! tip ""
```

=== "Omkar Jagtap"



```
{ width="120px" style="border-radius: 50%;" }
```

```
[![]](https://img.shields.io/badge/Language-C-blue)]  
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]  
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]  
(https://img.shields.io/badge/Target-SASM-lightgrey)]()
```

```
> **Role**: Compiler Engineer - ORIN <br>
```

```
> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable  
Implementation
```

```
- Designing and implementing **ORIN**, the high-level language compiler  
targeting SASM  
- Handles the full compilation pipeline: parsing, IR generation, and  
SASM output  
- Exploring advanced features like expression optimization and static  
analysis
```

```
> *"ORIN aims to make high-level programming compatible with low-level  
control."*
```

---

## 🙏 Acknowledgments

We'd like to thank:

- [Tsoding](#), [Dr Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for foundational resources.
- The open-source ecosystems around JVM, and language tooling.
- Friends and testers who offered feedback during early development stages.

## 👋 Contact & Community

- GitHub: [github.com/sohammetha/virex](https://github.com/sohammetha/virex)
- Interested in contributing? Check out [CONTRIBUTING.md](#)

---

*VIREX is open. Hackable. Minimal. Built for builders.*

---