

!!! 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.
```

=== "Soham Metha"



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

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

!!! tip "info"

- 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.

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

```
[]  
(https://en.wikipedia.org/wiki/C\_\(programming\_language\)) [![]  
(https://img.shields.io/badge/Project-VIREX-success)]() [![]  
(https://img.shields.io/badge/Project-SASM-success)]()
```

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!!! quote ""
```

=== "Omkar Jagtap"



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```
> **Role**: Compiler Engineer - ORIN <br>  
> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable  
Implementation
```

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

```
    - 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
```

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

```
[]  
(https://en.wikipedia.org/wiki/C\_\(programming\_language\)) [![]  
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]  
(https://img.shields.io/badge/Target-SASM-lightgrey)]()
```

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🙏 Acknowledgments

We gratefully acknowledge the creators and communities that inspired and supported this project:

- **Educational Inspiration:**

[Tsoding](#), [Dr. Jonas Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for their deep dives into compilers,

virtual machines, and systems programming.

- **Ecosystem & Tools:**

The open-source communities around the **JVM**, and **language tooling** landscape, for providing extensible blueprints and motivation.

- **Early Support:**

Friends, testers, and curious peers who gave feedback during the early stages of development.



Contact & Community

- 📁 GitHub Repository: [Soham-Metha/virex](#)
- 👤 Want to contribute? See the [CONTRIBUTING.md](#) guide

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