

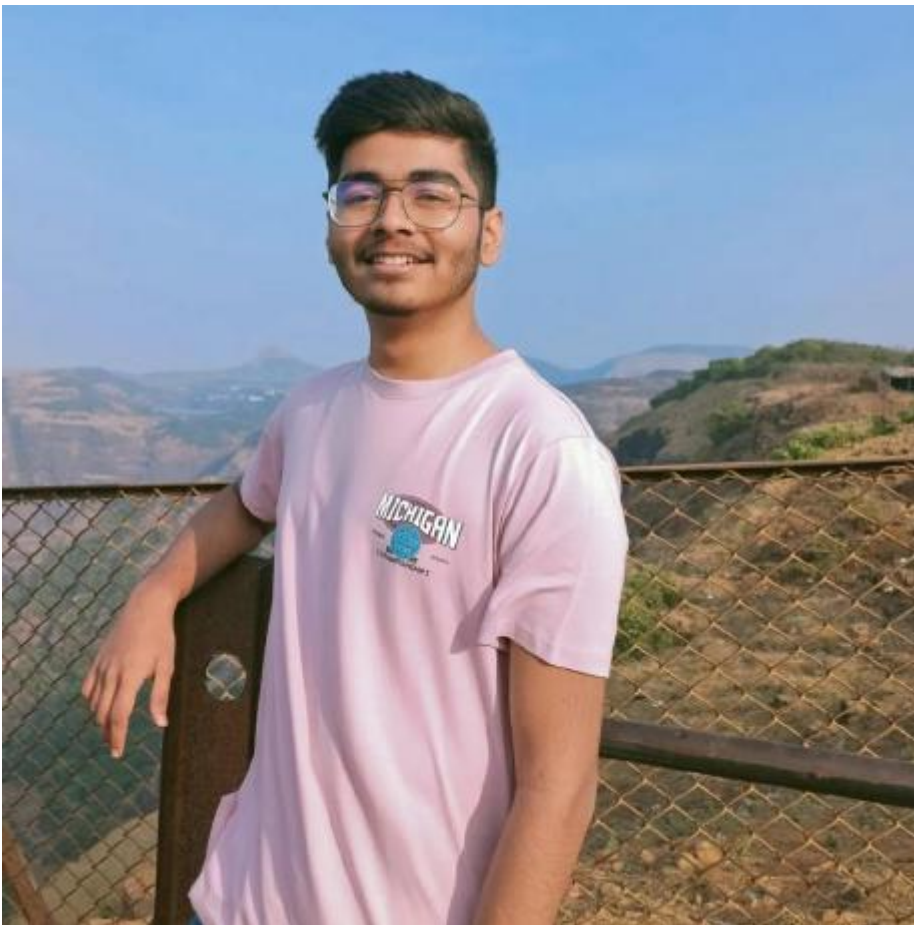
!!! info inline end ""

```
<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 ""



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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.

!!! quote

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


```
[]
(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%;"}</p>
</div>
<div data-bbox="111 432 762 500" data-label="Text">
<pre>[]
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]
(https://img.shields.io/badge/Target-SASM-lightgrey)]()</pre>
</div>
<div data-bbox="111 517 732 566" data-label="Text">
<pre>> **Role**: Compiler Engineer - ORIN

> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable
Implementation</pre>
</div>
<div data-bbox="111 584 873 685" data-label="List-Group">

- 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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<div data-bbox="111 702 862 734" data-label="Text">
<pre>> **ORIN aims to make high-level programming compatible with low-level control.**</pre>
</div>
<div data-bbox="84 786 349 811" data-label="Section-Header">
<h2> Acknowledgments</h2>
</div>
<div data-bbox="81 825 235 842" data-label="Text">
<p>We'd like to thank:</p>
</div>
<div data-bbox="111 857 789 914" data-label="List-Group">

• 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.

</div>

Acknowledgments

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Contact & Community

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

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