

!!! 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"



{ width="120px"

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

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

- 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.
```

```
> "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%;"}</p>
</div>
<div data-bbox="110 364 762 432" data-label="Text">
<pre>[![]](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)]()</pre>
</div>
<div data-bbox="110 449 551 466" data-label="Text">
<pre>> ****Role****: Compiler Engineer – ORIN
</pre>
</div>
<div data-bbox="110 466 732 500" data-label="Text">
<pre>> ****Modules Owned****: ORIN Compiler (WIP), Custom Hashtable
Implementation</pre>
</div>
<div data-bbox="110 517 872 617" data-label="Text">
<pre>- 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</pre>
</div>
<div data-bbox="110 635 862 667" data-label="Text">
<pre>> **"ORIN aims to make high-level programming compatible with low-level
control."**</pre>
</div>
<div data-bbox="84 719 349 743" data-label="Section-Header">
<h2> Acknowledgments</h2>
</div>
<div data-bbox="81 759 234 774" data-label="Text">
<p>We'd like to thank:</p>
</div>
<div data-bbox="110 791 789 846" 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>
<div data-bbox="84 863 389 884" data-label="Section-Header">
<h2> Contact & Community</h2>
</div>
<div data-bbox="110 899 450 917" data-label="List-Group">

• GitHub: github.com/sohammetha/virex

</div>

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[![]](https://img.shields.io/badge/Language-C-blue)]  
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- GitHub: github.com/sohammetha/virex

- Interested in contributing? Check out [CONTRIBUTING.md](#)

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