

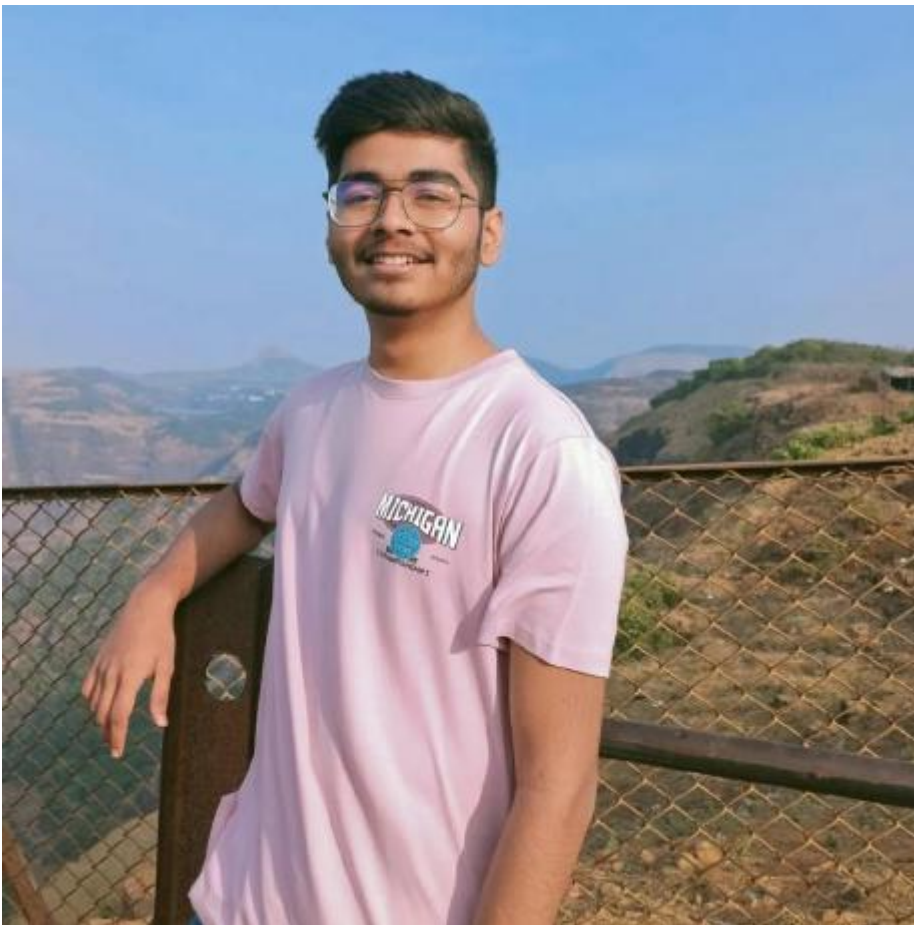
!!! info inline end ""

```
<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.
```

```
> "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="110 364 761 431" 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="110 449 551 465" data-label="Text">
<pre>> **\*\*Role\*\***: Compiler Engineer – ORIN <br></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="84 719 348 743" 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">
<ul>
<li>• [Tsoding](#), [Dr Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for foundational resources.</li>
<li>• The open-source ecosystems around JVM, and language tooling.</li>
<li>• Friends and testers who offered feedback during early development stages.</li>
</ul>
</div>
<div data-bbox="84 863 388 884" data-label="Section-Header">
<h2>🤝 Contact & Community</h2>
</div>
<div data-bbox="110 899 450 917" data-label="List-Group">
<ul>
<li>• GitHub: [github.com/sohammetha/virex](https://github.com/sohammetha/virex)</li>
</ul>
</div>

```
[![]](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.*

---