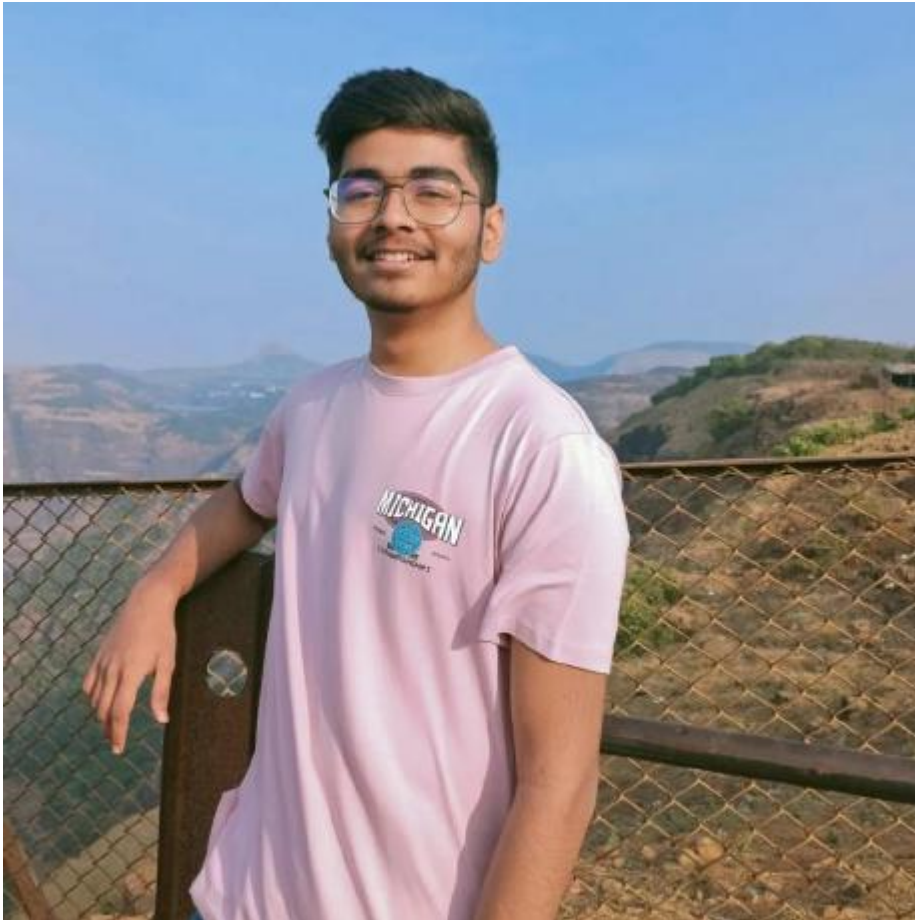


!!! info inline end ""

```
<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"



{ width="120px"

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://en.wikipedia.org/wiki/C_(programming_language))) []() []()

!!! quote ""

=== "Omkar Jagtap"



{width="120px" style="border-radius: 50%;"}</p>
</div>
<div data-bbox="110 381 732 431" data-label="Text">
<p>> **Role**: Compiler Engineer – ORIN

> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable Implementation</p>
</div>
<div data-bbox="112 449 264 465" data-label="Text">
<p>!!! tip "info"</p>
</div>
<div data-bbox="110 482 886 583" 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

</div>
<div data-bbox="112 601 214 617" data-label="Text">
<p>!!! quote</p>
</div>
<div data-bbox="111 634 849 666" data-label="Text">
<p>> *"ORIN aims to make high-level programming compatible with low-level control."*</p>
</div>
<div data-bbox="111 685 762 752" data-label="Text">
<p>[]
([https://en.wikipedia.org/wiki/C_\(programming_language\)](https://en.wikipedia.org/wiki/C_(programming_language))) []() []()</p>
</div>
<div data-bbox="112 769 243 786" data-label="Text">
<p>!!! quote ""</p>
</div>
<div data-bbox="81 821 439 839" data-label="Text">
<p>!!! info inline end "📞 Contact & Community"</p>
</div>
<div data-bbox="110 873 741 907" data-label="Text">
<p>📁 **GitHub Repository**

→ [Soham-Metha/virex](<https://github.com/Soham-Metha/virex>)</p>
</div>



****Want to contribute?****

→ See the [CONTRIBUTING.md](../CONTRIBUTING.md) guide



****Found a bug?****

→ Report it via [GitHub Issues](https://github.com/Soham-Metha/virex/issues)



****Have questions or ideas?****

→ Join the discussion on [GitHub Discussions](https://github.com/Soham-Metha/virex/discussions)



****Project direction****

→ View the [roadmap](roadmap.md)

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



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.

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