

# Soham Khataavkar

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## Education

<b>National Institute of Technology Nagpur</b> <i>B.Tech in Computer Science and Engineering - CGPA: 8.32/10.0</i>	July 2021 – May 2025 Nagpur, Maharashtra
<b>Indian Institute of Technology Bombay</b> <i>M.Tech in Computer Science</i>	July 2025 – May 2027 Mumbai, Maharashtra

## Projects

<b>side+</b>   <i>MongoDB, ExpressJS, ReactJS, NodeJS, Azure VM, Docker, Gemini AI</i>	Demo   Frontend   Backend
<ul style="list-style-type: none"><li>Developed a full-featured <b>online code execution platform</b> supporting C, C++, Java, Python, and JavaScript.</li><li>Integrated <b>Docker-based isolated execution environments</b> using Docker images (e.g., <b>GCC</b>, <b>OpenJDK</b>) with features like <b>execution time limits</b> and <b>automatic container cleanup</b>, to enhance security.</li><li>Integrated features such as <b>auto-save</b>, <b>auto-completion</b>, <b>cloud-save</b>, <b>local-save</b>, and <b>code-share</b> with a rich code editor interface to enhance the user experience.</li><li>Deployed on a scalable and reliable <b>Azure Virtual Machine</b>, enabling efficient remote code execution.</li><li>Integrated <b>Gemini AI</b> for intelligent coding assistance, including <b>code reviews</b>, <b>bug detection</b>, and <b>debugging suggestions</b>.</li></ul>	
<b>Globe Trotters</b>   <i>MongoDB, ExpressJS, ReactJS, NodeJS, Cloudinary, Gemini AI</i>	Demo   Frontend   Backend
<ul style="list-style-type: none"><li>Developed a vibrant travel blog platform enabling users to share experiences through <b>multimedia blogs</b>.</li><li>Implemented secure user authentication using <b>JWT</b> and <b>bcrypt</b>, enhanced with Google <b>OAuth2</b> social login integration. Additionally, enabled efficient content retrieval through <b>MongoDB's full-text indexing</b>.</li><li>Utilized <b>Cloudinary's Node.js SDK</b> for efficient upload, storage, and delivery of <b>images and videos</b>, ensuring optimized media performance across the platform.</li><li>Leveraged <b>Gemini AI</b> to enhance both blog creation and reading experiences, offering features such as <b>smart suggestions</b>, <b>summarization</b>, and <b>contextual insights</b>, among others.</li></ul>	
<b>Setris</b>   <i>C++, Raylib, Make</i>	Demo   GitHub
<ul style="list-style-type: none"><li>Developed a custom implementation of <b>Tetris</b> in <b>C++</b>, enabling players to fully customize gameplay rules such as speed, block shapes, and drop behavior.</li><li>Built with a fully modular architecture leveraging core <b>Object-Oriented Programming (OOP)</b> principles, enabling clean separation of concerns, enhanced code reusability, and ease of scalability and maintenance.</li><li>Deployed a web demo by compiling the core <b>C++</b> logic to <b>WebAssembly</b> using <b>Emscripten</b>, seamlessly integrating it into a <b>ReactJS</b> frontend for efficient and smooth in-browser execution.</li></ul>	

## Achievements

<b>Microland Smart Infra Hackathon - Winner</b>	October 2024
<ul style="list-style-type: none"><li>Developed a full-stack AI-powered health chatbot as part of a company-sponsored hackathon.</li><li>Handled <b>backend development</b>, <b>deployment</b> and coordinated <b>project integration</b> to ensure smooth collaboration.</li><li>Performance in the hackathon led to a <b>full-time job offer</b> from <b>Microland</b> as a <i>Software Developer</i>.</li></ul>	

## Technical Skills

**Languages:** C, C++, JavaScript, SQL  
**Web Development:** HTML, CSS, ReactJS, NodeJS, ExpressJS, REST APIs  
**Databases:** MongoDB, MySQL  
**Tools & Platforms:** Docker, Make, Cloudinary, Azure Virtual Machines, Render, Git, GitHub

## Relevant Coursework

- |                   |                     |                         |                        |
|-------------------|---------------------|-------------------------|------------------------|
| • Data Structures | • Operating Systems | • Computer Networks     | • Database Management  |
| • OOP             | • Algorithms        | • Computer Architecture | • Software Engineering |