

# Ahsan Moin

---

New York City | (718) 427-0367 | [ahmoin@tutamail.com](mailto:ahmoin@tutamail.com) | [linkedin.com/in/ahmoin](https://www.linkedin.com/in/ahmoin) | [github.com/ahmoin](https://github.com/ahmoin) | [ahmoin.com](https://ahmoin.com)

## Summary

---

Full-Stack Engineer with expertise in React, TypeScript, and building scalable, data-driven, user-focused applications. Led Manhattan Center for Science and Mathematics' coding club, MCSM Codes, where I organized coding workshops, guided peers through projects, and created opportunities for students to collaborate on real-world software.

## Skills & Abilities

---

Frontend: React, TypeScript, JavaScript, Next.js, Tailwind CSS, HTML, CSS, Figma

Backend: Node.js, Convex, REST APIs, Authentication, Database Design

Tools: Git, GitHub, VS Code, Vercel, NPM, pnpm

Concepts: Data Structures, Algorithms, Problem Solving, State Management, Asynchronous Programming

## Projects

---

### Student Planner

<https://planner.ahmoin.com> | <https://github.com/ahmoin/planner>

- Developed a personalized planner enabling students to manage assignments, track progress, and visualize performance trends.
- Designed and implemented editable data tables, interactive charts, and semester-based organization using React, TypeScript, and Convex.
- Integrated authentication and user preference management for a personalized experience.

### 3D Scale of The Universe

<https://ahmoin.github.io/scale-of-the-universe/> | <https://github.com/ahmoin/scale-of-the-universe>

- Created a logarithmic 3D visualization illustrating the relative scale of objects in the universe.
- Utilized Three.js to model and render spatially accurate celestial objects and reference points.
- Developed camera controls and smooth transitions to explore different magnitudes interactively.
- Focused on clarity, accuracy, and user experience through intuitive navigation and visual hierarchy.

## Education

---

### Manhattan Center for Science and Mathematics High School

Junior

Expected Graduation: June 2027