

# ADAM ABBAS

SCIENTIFIC SOFTWARE DEVELOPER

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## SKILLS

- Software Design
- Interpersonal Communication
- Curriculum Design
- Scientific Computing
- Test Automation
- Python
- Linux/Bash
- Git
- Test Driven Development (TDD)

## EDUCATION

**B.S. in Materials Science,**  
**California Institute of Technology,**  
**Pasadena**

SEP, 2018 - JUN, 2022

- **Leadership:** Head Computer Science TA, President of Blacker House, Student Representative to the Board of Trustees.
- **Coursework:** Computational & Numerical Methods, Software Design, Physics (Condensed Matter), Mechanics, Electronic Materials
- **Awards:** Donald S. Clark Memorial Prize, Robert L. Noland Leadership Award

## PROFESSIONAL SUMMARY

Results-driven **Software Developer** with 5+ years of experience building robust **infrastructure** and scalable systems. Passionate about software craftsmanship, consistently delivering high-quality, **maintainable code** that reduces technical debt and simplifies future development. Excels at translating complex scientific and research requirements into effective, well-engineered technical solutions. Excited about good design, developer tooling, and high-impact projects.

## EMPLOYMENT HISTORY

### SCIENTIFIC SOFTWARE DEVELOPER

SCHRODINGER INC / AUG 2022 - PRESENT

- **Optimized** molecular dynamics simulation workflows in collaboration with research scientists, **reducing data processing time by over 20%**, increasing research throughput, and improving the user experience.
- **Architected and deployed** a new system testing infrastructure from the ground up, **cutting test creation time by 40%** and improving code maintainability.
- Led a cross-functional project with the Documentation team to revamp the molecular dynamics product's User Manual, improving user experience and accessibility.
- One of the first to adopt **Agentic AI Tools** for programming. Led workshops and internal talks on best practices, spiking interest across the organization.

### UNDERGRADUATE RESEARCHER

FALSON GROUP / APR 2020 - JUN 2022

- Conducted in-depth study on Yttrium Oxide growth for quantum computing applications.
- Spearheaded digital infrastructure development, creating custom software and protocols for Molecular Beam Epitaxy lab equipment.

### PROJECT SYSTEMS ENGINEERING INTERN

NASA JET PROPULSION LABORATORY / JUN 2019 - JUN 2022

- Engineered a custom software toolkit to streamline Verification and Validation procedures for the Psyche mission, automating the management and upload of **over 20,000 telemetry test entries**.

### CO-FOUNDER/DIRECTOR OF PROGRAMMING

KINET-X / FEB 2016 - APR 2020

- Developed innovative STEM curricula, addressing educational disparities and reaching over **1,000 NYC students** through engaging workshops and programs.
- **Featured in The Wall Street Journal** for innovative contributions to STEM education and community outreach.
- Fostered partnerships with local schools and organizations, creating a **network of STEM education opportunities**.
- Recognized as one of **CE Week's Top 10 Under 20** young innovators in technology in 2016