

# Daniel Mayer

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## EDUCATION

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**Carnegie Mellon University** (Pittsburgh, PA)

Anticipated May 2026

*Bachelor of Science in Electrical and Computer Engineering*

GPA: 3.73/4.00

*Minor in Software Engineering (not yet declared)*

- Relevant Coursework (Completed or Planned): Imperative Computation [C Programming & Data Structures], Object-Oriented Software Construction, Electronic Devices & Analog Circuits, and Computer Systems.
- 86/120 semester credits completed.

## EXPERIENCE

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**Mayer Studios**

West Lafayette, IN

*Co-Founder and Co-President*

March 2018 — Present

- Co-founded a successful software development business with my brother, with total revenue in excess of \$25,000 from nearly 9,000 sales to 8,250 unique users around the world.
- Designed, developed, and debugged Android phone applications and Fitbit smartwatch watchfaces for the business.
- Operated business technical infrastructure, including our email and web servers.

**Carnegie Mellon University**

Pittsburgh, PA

*Teaching Assistant for ECE 18-100 (Intro to Electrical & Computer Engineering)*

January 2024 — Present

- Conducted weekly small-group teaching/review sessions with students.
- Assisted students at office hours.
- Graded exams and homework assignments.

**Learn to Be and Schoolhouse.world**

Anaheim and Palo Alto, CA (Remote)

*Volunteer Tutor*

September 2021 — December 2023

- Tutored three students over a multi-year period in high-school level math and English, helping them increase their grades from Cs to As.
- Conducted 50+ drop-in help sessions for high school and college math and science homework.
- Received nearly all favorable reviews across both platforms, including 53 “Super Helpful” and 54 “Helpful” reviews.

## PROJECTS

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**JBackUp: Java with Swing, Sockets, and Threading**

*GitHub:* <https://github.com/daniel-s-mayer/JBackUp>

- Built a Java program to efficiently back up files between devices over networks.
- Implemented username/password-based authentication and multithreading in the program.
- Created and implemented test procedures prior to release.

**What's Next: Java, Android, and Firebase**

*GitHub:* <https://github.com/daniel-s-mayer/WhatsNext>

- Independently built a subscription manager app for Android devices.
- Implemented support for push notifications, dark mode, and multiple currencies.
- Followed object-oriented design principles in the construction of the app.

**Mayer Studios App for Android: Dart, Flutter, PHP, and JavaScript**

*Google Play:* <https://play.google.com/store/apps/details?id=com.mayerstudios.mayerstudiosapp2>

- Built an Android app to allow customers to view, purchase, and request support for Mayer Studios products from their Android smartphones.
- Implemented backend infrastructure for support requests and likes.
- Created and implemented unit testing and production-level performance monitoring (with no crashes detected in two years).

## SKILLS

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- **Programming Languages:** C, Java, Python, and JavaScript.
- **Software:** Git, Linux, Visual Studio and JetBrains IDEs, Microsoft Office, Markdown, and L<sup>A</sup>T<sub>E</sub>X.
- **Electrical Engineering:** Circuit Design/Analysis and Electrical Lab Measurements.
- **Technology:** System Administration, Technical Support/Issue Resolution, and Search Engine Optimization (SEO).