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# Seth Goldin

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## WORK EXPERIENCE

### **Max Planck Florida Institute For Neuroscience** - *Magar Data Science*

*Research Fellow* (May 2021-Present)

- Developing programmatic pipelines using computer/data science to accelerate various research processes in the Electron Microscopy Core under the mentorship of Dr. Naomi Kamasawa.
- Built a software package with several custom analysis methods to allow for efficient and effective data evaluation of Electron Microscopy freeze fracture replica images. Can be seen at <https://github.com/GoldinGuy/GoldInAndOut>
- Investigating the role of particular protein channels in the brain - recent work is in the process of being published in the paper "Automated Analysis Tool for Immunogold Labeled Membrane Protein Distributions in Freeze-Fracture Replica Images."

### **College Compendium Nonprofit Corporation** - *Director, Lead Software*

*Engineer* (June 2021-Present)

- Created a nonprofit open-source platform to share high-quality public computer science resources from top colleges with intellectually curious students across the world.
- Featured on Morning Brew and reached #4 on Product Hunt with over 1000 classes compiled and 70000 students served in 179 countries.
- College Compendium Corporation is a nonprofit in the state of Florida and can be visited at <https://collegecompendium.org>

### **Catalyst Scientific** - *Founder, Lead Software Engineer* (January

2021-Present)

- Created a fully customizable affordable embeddable open-source video chat component for developers to integrate into their applications quickly and easily.
- Powered several other student-created businesses including Hours, a student studying platform acquired by Fiveable, and Curious Cardinals, a community-based education workshop Stanford startup.
- Catalyst Scientific is a certified LLC in the state of Florida and can be seen here <https://catalyst.chat>
- Try out a demo here <https://demo.catalyst.chat!>

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### **Goldin Web Design** - *Freelance Web Developer* (March 2018-Present)

- Launched a freelance web development company merging my programming skills and visual arts background to build dozens of websites for medical professionals and small businesses.
- A partial portfolio can be seen at <https://goldinwebdesign.com/>

### **TopDecked Limited** - *Software Development Intern* (January 2020-present)

- Worked on development tools and utilities at TopDecked, a platform aiming to bring the best of current technology to the gaming industry.
- Gained experience in web frameworks, pipelines, and data science tasks such as creating a custom K-means clustering implementation in TypeScript ([kmeans-ts](https://github.com/GoldinGuy/TopDeckedTools)). Much of the work I did can be found here: <https://github.com/GoldinGuy/TopDeckedTools>
- TopDecked can be seen at <https://topdecked.com/>

## **EDUCATION**

### **FAU High School Jupiter In Partnership With Max Planck Academy** -

*High School Senior, College Sophomore (August 2020-Present)*

- GPA 5.313
- ACT 35 (Taken April 2021)
- PSAT Score 1410 (Taken Fall 2020)
- College courses at the FAU Wilkes Honors College:
  - Honors Calculus-Analytic Geometry
  - Honors General Chemistry I
  - Honors General Chemistry I Lab
  - Intro to Programming in C
  - Foundations of Programming
  - Multidisciplinary Introduction to Research
  - Multidisciplinary Research Methods 1
  - Honors US History from 1877
  - Honors Intro to Neuroscience Research
  - Honors College Forum
  - Microeconomics
  - American Literature

### **Jupiter High School** - *High School Freshman, Sophomore (August 2018 - August 2020)*

- AP & AICE Exams:
  - AP Computer Science A - 5
  - AP Computer Science Principles - 5
  - AP Human Geography - 5
  - AP World History (Modern) - 5
  - AP Biology - 4

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- AP Psychology - 4
  - AICE General Paper- A
  - AICE Lang, AICE Math - Test canceled due to Covid
  - Attended Bak Middle School of the Arts as a Visual Arts major

## COMMUNITY ACTIVITIES & SERVICE

### **Palm Beach County Library Volunteering** - *ReadTogether, Reading Buddies, Coding Buddies, Shelving* (August 2016-present)

- Created and implemented a “Coding Buddies” program which ran for two years (until Covid) at my local library branch, teaching young students basic coding skills.
- Volunteered as a mentor in the “Reading Buddies” program, which paired elementary-aged children with limited access to educational resources with teens to improve their literacy skills.
- Built ReadTogether, a platform to bring the Reading Buddies program online with the support of my local librarians. Can be found at <https://readtogetheronline.com>.
- ReadTogether is now used by the nonprofit organization Little Smiles (<https://littlesmilesfl.org/programs/>) for the program “Little Readers,” which is available in all 32 of their partner hospitals and care facilities.

### **SwiftGrade** - *Primary App Developer* (December 2019-Present)

- Developed an app for students to easily access information about their grades and assignments in the School District of Palm Beach County.
- SwiftGrade was officially approved by the School District of Palm Beach County Technology Clearinghouse Committee and currently supports more than 180 schools with over 6000 active users.
- SwiftGrade is open-source and can be seen at <https://github.com/SwiftGrade/grades-flutter>
- View SwiftGrade on the app store at <https://apps.apple.com/us/app/swiftgrade/id1495113299/?platform=iphone>

### **Music With A Master** - *Founder, Lead Developer* (March 2020-March 2021)

- Helped support professional musicians unable to perform publicly during Covid-19 by connecting them with passionate students desiring to learn and share their love of music.
- Partnered with over 60 world- renowned musicians from musical institutions including the Chicago Symphony Orchestra, the Philadelphia Orchestra, and the New York Philharmonic. Music with a Master can be found at <https://musicwithamaster.com>

### **Quantum House Volunteering** - *Dinner Delivery, Book Drive* (May 2017-present)

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- Deliver meals monthly to the Quantum House, a caring and supportive home that lessens the burden for families whose children are receiving treatment in Palm Beach County for a serious disease or disorder.
  - Led a book drive collecting over 2000 books to establish a library for the Quantum House children and families.

#### **LaunchX Entrepreneurship @ MIT** - *"Builder" (Summer 2019)*

- Worked on a team of international students for four weeks to identify business opportunities, formulate an idea with market research, design and test a solution, and build business logistics. Attended lectures on entrepreneuring from Harvard and MIT professors at the MIT campus (<https://launchx.com/>)
- Designed Spade, a conceptual product with the goal of solving the Indian water crisis. It was a filter that could be attached to a water truck to enable the usage of non-potable water in addition to regular drinking water (thus increasing total supply and availability).

## **SCHOOL CLUBS & ACTIVITIES**

#### **Google Developer Student Club** - *Technology Lead, Lead Hackathon Organizer (August 2020-present)*

- Elected as a Tech Lead for my developer student club at Florida Atlantic University.
- Created and presented several workshops/events to teach other students about various programming techniques and support them on their journey.
- Some of the most useful resources I compiled for this position can be viewed at <https://github.com/GoldinGuy/UltimateGitResource> or <https://github.com/GoldinGuy/UltimateRegexResource>
- Elected to the position of Lead Hackathon Organizer for Hackapalooza, a two-day hackathon programming extravaganza taking place September 25-26, 2021 for which I am leading the planning and execution. Details can be found at <https://hackapalooza.dev>

#### **FIRST Robotics Competitions** - *Programming Mentor (August 2015-present)*

- Currently a programming mentor on my robotics team MARS 1523. Before this role, I was an active participant on both MARS and team SWAMP 197 (including building both their websites, such as <http://179swampthing.org>).
- Participated in FIRST robotics for over seven years since sixth grade. In that time I have been team captain and now a mentor. I have also been heavily involved in the outreach efforts of both teams including volunteering at the FIRST Lego League competitions every year, beach cleanups, and STEM education enrichment events.

#### **FAU Max Planck Academy Peer Mentoring** - *Peer Mentor (August 2021-present)*

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- Chosen as a peer mentor to help some of the new students at my unique program get situated and help with any issues they may have. As my school is heavily focused on research, many of our discussions revolve around finding mentors and gaining the necessary skills to be a valuable asset to a lab.

### **Track and Field/Cross Country** - *Varsity* (August 2017-August 2020)

- Ran varsity cross country and track and field at Jupiter High School for two years. Running is important to me because (in addition to being great exercise) it is a way to give myself time to reflect and relieve stress.
- Following my move to a new high school I was unable to join the new team because practices were now a two-hour commute away. I have therefore joined two running clubs made up of mostly scientists from the two research institutes nearby, Max Planck and Scripps. We meet on Mondays and Tuesdays weekly to run a 5k.

## **AWARDS**

- National Merit Semifinalist
- Magar Fellowship - one of three students chosen to be Magar Fellows this year. Pursued neural data science research at the Max Planck Florida Institute for Neuroscience in this paid fellowship.
- Student of the Month at Jupiter High School (February 2020) - nominated by my AP Biology teacher
- Won three silver Scholastic keys in stop motion animation and sculpture (2017-2018)
- Won 2nd Place in 2018 Palm Beach County science fair - built an indoor terrarium to test how levels of darkness affected plant growth
  - American Society of Sugar Cane Technologies award winner
- Received certificate of achievement for receiving a perfect score on FSA Algebra I EOC and Civics EOC (2017-2018)
- Varsity Letters in Track and Cross Country

## **SKILLS**

- Fluent in JavaScript, Typescript, Python, Dart, C, C++, Java, React, Angular, Ionic, HTML, CSS, and Git. For various examples of my work, see [github.com/GoldinGuy](https://github.com/GoldinGuy)
- 3D modeling/CAD design, Adobe Photoshop/Illustrator
- Proven leadership and collaborative talents, a natural curiosity, and drive for excellence.

## **REFERENCES**

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- Lincoln Baxter III - *CEO at TopDecked Limited*  
[lincoln@topdecked.com](mailto:lincoln@topdecked.com)
  - Dr. Naomi Kamasawa - *Director of the Imaging Center at the Max Planck Florida Institute for Neuroscience*  
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  - Dr. Joe Schumacher - *PostDoc at Max Planck Florida Institute for Neuroscience, Undergraduate Programs Coordinator*  
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~ Additional information available at [linkedin.com/in/sethgoldin](https://www.linkedin.com/in/sethgoldin) ~