

Zeyn Schweyk

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Piano Duo: thepianoboy.com, [Instagram](#), [Facebook](#), [YouTube](#), [LinkedIn](#), [Music Resume](#)

Personal: zeyn.schweyk.com, [Projects](#), [GitHub](#), [LinkedIn](#)

EDUCATION

Johns Hopkins University and Peabody Institute of Music – GPA: 3.88/4.0

Baltimore, MD

Electrical Engineering and Computer Science Double Major, w/ minors in Entrepreneurship and Music

August 2022 – May 2026 (Expected)

Santa Barbara City College – GPA: 4.0/4.0

Santa Barbara, CA

2 Associates degrees in Math & Science and Liberal Arts

August 2018 – May 2022

- Dual Enrollment Student throughout high school, completed over 60 credits in math, science, CS, history, finance and music

Engineering Academy at Dos Pueblos High School – GPA: 5.0/5.0

Baltimore, MD

August 2018 – May 2022

WORK EXPERIENCE

Radio Frequency (RF) Software Intern

Goleta, CA

Toyon Research Corporation

June 2023 – August 2023, June 2022 – August 2022

- Created & deployed full-stack web apps & desktop apps for research & testing for defense w/ JavaScript (React), Python, C++, C#, VS & VS Code, .NET Framework
- Experience w/ RESTful APIs, Robot Operating System (ROS), servo motors

Software Contractor

Santa Barbara, CA

Santa Barbara Control Systems, Chemtrol Division

December 2020 – May 2021

- Designed and created a time-clock system, suitable for any mid-sized company, used daily by employees and management w/ Python & SQL
- Implemented multiple versions of desktop applications compatible w/ Windows, Mac, & Linux. Dealt with Facial Recognition for automatic clocking in/out, automatic emails/alerts/database backups, regular employee reports linked to payroll, wage calculations, vacation & sick accrual & taken, tasks by employee & department, random motivational quotes, English & Spanish translations, and much more
- Pitched and sold system to CEO
- [GitHub Repository](#)

Mechatronics Programmer for Science Museums across CA

Goleta, CA

Dos Pueblos Engineering Academy

August 2021 – June 2022

- Designed and created software for various exhibits to be displayed across museums in California, like the Exploratorium in San Francisco, as a HS Senior
- Implemented and deployed closed-loop feedback control (PID) systems, Apache web servers on Raspberry Pis, CRUD applications, client-server models, Python libraries to PyPI, and used Arduinos, various sensors and motors, and input devices
- Designed exhibit components with SOLIDWORKS and machined them w/ lathes, mills, & laser cutters, as needed
- View my [Project Portfolio](#) for a more detailed description of these projects

ThePianoBoys (aka SBPianoBoys)

California

Classical Piano Duo w/ my brother

January 2014 – Present

- Perform solo, four-hands, & two-piano repertoire regularly at various venues, teach music to all ages, and compose and arrange works, all with my brother as a duo
- Competed in & won countless performance competitions, state level composition competitions, & various music festivals across CA, individually and as a duo
- Studied Chamber Music at The Music Academy of the West under faculty from Juilliard, Curtis, etc., University of California Santa Barbara (UCSB), Santa Barbara City College (SBCC), The Schwab Academy of Music, Westmont Academy for Young Artists, and Santa Barbara Music and Arts Conservatory

ACHIEVEMENTS

- '22 SECRET Security Clearance
- '22 JHU Clark Scholar Member & Recipient
- '22 Student Elected Representative for Mechanical Engineering Undergraduate Student Council (MUSC) at JHU
- '22 Santa Maria Philharmonic Showcase Winner
- '21 AP Scholar w/ Distinction
- '21 FIRST Robotics Tidal Tumble Semifinalist
- '21 Santa Barbara Double Piano Concerto Competition Winner
- '20 Music Teachers' Association of California (MTAC) Composers Today Symposium State Level Finalist
- '18 Jr. High Chess Tournament District Winner
- '18 Mock Trial Team County Winner as Pre-trial attorney
- '15 Jr. Black Belt in Kung Fu

SPECIALIZED SKILLS

- **Programming languages:** C, C++, C#, Python, Java, JavaScript, MATLAB, SQL, HTML, CSS
- **Design:** SOLIDWORKS, OnShape, & basic CAM software
- **Manufacturing:** Lathe, Mill, Band Saw, Laser Cutters, 3D Printing, Soldering
- **AWS:** EC2, Lightsail, S3, Load Balancing, Auto Scaling, Wordpress & WordPress Multisite, SSL Certificates, DNS Records
- **Business:** Business Operation & Marketing, Event Planning & Coordination, Public & Motivation Speaking, Bookkeeping, Microsoft Office / Google Suite
- **Other:** Logisim, Makefiles, gdb, Valgrind, Git, GitHub & GitLab

LEADERSHIP & INVOLVEMENT

- Computer Science Course Assistant at Johns Hopkins University
- Santa Barbara Architectural Foundation Design Program
- Spreadsheet Club, Founder & President
- American Institute of Aeronautics & Astronautics

HOBBIES

- Classical Improvisation & Composition, Brainstorming Business Ideas, Coding, Tennis, Table Tennis, Running