

Zeyn Schweyk

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

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

EDUCATION

- The Johns Hopkins University and Peabody Institute of Music – GPA: 3.88/4.0** Baltimore, MD
Electrical Engineering and Computer Science Double Major, w/ double minors in Entrepreneurship/Management and Music Performance 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 as Dual Enrollment High School Student, w/ over 60 GE credits completed August 2018 – May 2022
- Engineering Academy at Dos Pueblos High School – GPA: 5.0/5.0** Goleta, CA
August 2018 – May 2022

WORK EXPERIENCE

- Radio Frequency (RF) Software Intern w/ SECRET Security Clearance** Goleta, CA
Toyon Research Corporation June 2022 - Present
- 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/ backend & frontend development, RESTful APIs, Robot Operating System (ROS), servo motors
- Computer Science Course Assistant** Baltimore, MD
The Johns Hopkins University at The Whiting School of Engineering August 2023 - Present
- Intermediate Programming (EN.601.220) – assist students in class, hold office hours, grade assignments, and proctor exams in C & C++ programming languages
- 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 projects
- 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
- 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
 - 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, University of California Santa Barbara (UCSB), and other institutions

ACHIEVEMENTS

- '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, KiCad, Logisim, LTSpice, Wordpress
- Manufacturing:** Lathe, Mill, Band Saw, Laser Cutters, 3D Printing, Soldering
- AWS:** EC2, Lightsail, S3, Load Balancing, Auto Scaling
- Business:** Business Operation & Marketing, Event Planning & Coordination, Public & Motivation Speaking, Bookkeeping, Microsoft Office / Google Suite
- Other:** PID loops, SSL Certificates, DNS Records, HTTP Requests, APIs, Backend/Frontend programming, Apache Web Server Setup, Makefiles, gdb, Valgrind, Git, GitHub, GitLab

LEADERSHIP & INVOLVEMENT

- Johns Hopkins Racing Club (Baja) Electronics Sub-team
- Johns Hopkins Robotics Club
- Spreadsheet Club, Founder & President
- American Institute of Aeronautics & Astronautics

HOBBIES

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