

Campbell Phalen
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EDUCATION

University of Pennsylvania Philadelphia, PA	May 2023
Bachelor of Science in Engineering in Networked Social Systems Engineering	
Relevant Coursework: Mathematical Foundations of Computer Science; Linear Algebra; Differential Equations; Programming Techniques; Data structures and Algorithms.	
University of Chicago Laboratory High School Chicago, IL	June 2019
Honors/Awards: All-School Citizenship Award; Illinois State Math League 1 st Place Oralist; Principal's Citation; Achievement in Computer Science; Phoenix Award for supporting the school community.	
University of Chicago Chicago, IL	Coursework taken in high school
Relevant Coursework: C Programming; Functional Programming; Databases; Honors Calculus.	

PROFESSIONAL EXPERIENCE

UPenn College Houses & Academic Services, Technical Support Expert Philadelphia, PA	August 2019 — Present
<ul style="list-style-type: none">Provide technological assistance to help ensure that students are best able to succeed.	
Carbonless Community, Chief Technology Officer Chicago, IL	June 2017 — August 2019
<ul style="list-style-type: none">Built AngularJS web applications which annually facilitates hundreds of green energy auctions.Wrote Python scripting software to present and analyze energy sales metrics.	
Citadel, Software Engineering Intern Chicago, IL	June 2019 — August 2019
<ul style="list-style-type: none">Designed in-house solutions for report building and scheduling used by 400 employees.Interfaced with end-users to create the best possible product.	
Citadel, Software Engineering Intern Chicago, IL	June 2018 — August 2018
<ul style="list-style-type: none">Developed trade-break auditing and resolution software still in use by multiple teams.Wrote optimized, low-latency SQL code to query high volume databases with billions of rows.	
Citadel, Software Engineering Intern Chicago, IL	June 2017 — August 2017
<ul style="list-style-type: none">Created Python web application that continuously monitors and displays trade simulation status.	
Waaves, Software Engineering Consultant Chicago, IL	December 2016 — July 2017
<ul style="list-style-type: none">Placed as a finalist in the University of Chicago's New Venture Challenge.Envisioned and implemented the minimum viable product of a collaborative music production software.	
Starchup, Software Engineering Intern Chicago, IL	June 2016 — August 2016
<ul style="list-style-type: none">Engineered a comprehensive front-end to back-end testing suite for company's main product.	

LEADERSHIP & ACTIVITIES

Penn Labs, Backend Engineer Philadelphia, PA	September 2019 — Present
<ul style="list-style-type: none">Devise web and mobile solutions to improve student life: course review, registration, and planning.Produce the official University of Pennsylvania student organization online registry.	
Penn Electric Racing, Software Systems Engineer Philadelphia, PA	September 2019 — Present
<ul style="list-style-type: none">Construct, from the ground up, perennial award-winning formula electric race cars.Formulate embedded firmware to operate on custom circuit boards.	
Student Council, Director of Student technology Services Chicago, IL	May 2017 — June 2019
<ul style="list-style-type: none">Lead designer for Student Council web systems: voting, student voice, club advertising.Supported day-to-day technology needs: AV equipment, ID-Cards, school emails.Co-lead in developing web application to promote community of women in STEM fields.	
1871 + University of Chicago Laboratory School, Project Lead Chicago, IL	November 2016 — June 2019
<ul style="list-style-type: none">Presented 7 classmates with paid internships at the 1871 startup incubator in Chicago.Collaborating with faculty and administration to procure funding and project approval.	
Artifice Tech Center, Volunteer Teaching Assistant Chicago, IL	September 2016 — June 2017
<ul style="list-style-type: none">Fostered computer and engineering skills in a class of 14 underprivileged students.Cultivated meaningful connections with other aspiring engineers.	

SKILLS & INTERESTS

Application Development: C/C++; Haskell; OCaml; Python; Java; TensorFlow; Protocol Buffers; LaTeX; Git; Networks.
Web Design: NodeJS; React; REST API; PHP; JavaScript; jQuery; Django; Python Flask.
Databases: MySQL; SQL Server; Redis; Data warehousing; Business analytics/intelligence.
Interests: Technical/musical theater; lacrosse goalie; love of any and all film.
Additional Skills: Partially fluent in Chinese (9 years of study); collaborating in a team; mathematics/combinatorics.