

Campbell Phalen
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EDUCATION

University of Pennsylvania Philadelphia, PA Bachelor of Science in Engineering in Networked Social Systems Engineering <i>Relevant Coursework:</i> Mathematical Foundations of Computer Science; Linear Algebra; Differential Equations; Computer Architecture; Data structures and Algorithms; Scalable and Cloud Computing.	May 2023
University of Chicago Laboratory High School Chicago, IL <i>Honors/Awards:</i> 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.	June 2019
University of Chicago (Coursework taken in high school) Chicago, IL <i>Relevant Coursework:</i> C Programming; Functional Programming; Databases; Honors Calculus.	

PROFESSIONAL EXPERIENCE

University of Pennsylvania, Teaching Assistant for CIS 120 Philadelphia, PA <ul style="list-style-type: none">Teach students topics in functional programming and advanced objected-oriented programming.	December 2019 — Present
Blizzard Entertainment, Server Engineering Intern Irvine, CA <ul style="list-style-type: none">Designed server software to improve matchmaking efficiency, wait time, and fairness for players.Collaborated with team to make creative decisions about player experience.	May 2020 — August 2020
Carbonless Community, Chief Technology Officer Chicago, IL <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.	June 2017 — August 2019
Citadel, Software Engineering Intern Chicago, IL <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.	June 2019 — August 2019
Citadel, Software Engineering Intern Chicago, IL <ul style="list-style-type: none">Developed trade-break auditing and resolution software still in use by multiple teams.Wrote optimized SQL code to query high volume databases with billions of rows.	June 2018 — August 2018
Citadel, Software Engineering Intern Chicago, IL <ul style="list-style-type: none">Created Python web application that continuously monitors and displays trade simulation status.	June 2017 — August 2017
Starchup, Software Engineering Intern Chicago, IL <ul style="list-style-type: none">Engineered a comprehensive front-end to back-end testing suite for company's main product.	June 2016 — August 2016

LEADERSHIP & ACTIVITIES

Penn Labs, Backend Engineer Philadelphia, PA <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.	September 2019 — Present
Penn Electric Racing, Software Systems Engineer Philadelphia, PA <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.	September 2019 — Present
Student Council, Director of Student technology Services Chicago, IL <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.	May 2017 — June 2019
1871 + University of Chicago Laboratory School, Project Lead Chicago, IL <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.	November 2016 — June 2019
Artifice Tech Center, Volunteer Teaching Assistant Chicago, IL <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.	September 2016 — June 2017

SKILLS & INTERESTS

Application Development: Java; Python; C/C++; OCaml; Haskell; TensorFlow; Protocol Buffers; LaTeX; Git; Spark.
Web Design: Django; NodeJS; React; REST API; PHP; Python Flask; TypeScript; jQuery.
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.