EDUCATION	
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University of Pennsylvania, School of Engineering & Applied Science - nets.upenn.edu	
Expected Bachelors in Networked and Social Systems Engineering (NETS aka <u><i>Hipster (S</i></u>)	May 2022
TECHNICAL EXPERIENCE	
Software Engineering Intern, Pahdo Labs - pahdolabs.com	Summer 2021
Researched, designed and implemented state of the art latency-resilient MMO game engine and supporting distributed archite	ecture
 Worked with Golang, Godot, Nakama 	
Software Engineering Intern, Microsoft	Summer 2020
Wrote code designed to detect syntax errors and suggest code refactorings, enhancing the Visual Studio developer experience	2.
Designed, developed and created integration tests for multiple static code analyzers targeting C#, VB and LINQ.	
Participated in customer calls and user testing, wrote official documentation describing analyzer functionality and configuratio	n options
Worked with C#, Visual Basic, Roslyn	
Software Engineering Intern, <u>Volley (YC W18)</u> - volleythat.com	Summer 2019
* Architected and developed an automated voice app testing framework, cutting hundreds of hours of manual testing from developed	
Developed voice app dev console, accelerating voice app development by allowing developers to step through voice apps and	•
Built a continuous serverless monitoring tool, allowing issues with software in production to be detected within minutes instea	d of hours
Worked with Javascript, React, Redux, AWS (Lambda, Cognito, API Gateway, DynamoDB, SNS), Mocha/Chai	
Software Engineering Intern, Knowt (#1 on Product Hunt) - knowt.io	Spring 2019
 Built user authentication, onboarding, cross-platform document syncing and importing features in React and AWS 	
Implemented analytics on beta website and mobile app, tracking user engagement across features to inform future developm	ent
 Worked with React, React Native, Javascript, AWS (Cognito, DynamoDB) 	/ -
Software Engineering Intern, EHC - encompasshc.com	Summer 2018
Expanded payroll software to handle digital completion of state tax withholding certificates to support customers in all 50 US	
Architected new modular code structure, allowing completion of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a week and speeding up future development of a 3 month project within a 3 month project within a 3 month project within a 3 month proje	
Worked with customers to build appropriate backend endpoints and frontend features to meet their employee management r	heeds
 Worked with C#, Javascript, Kendo, and MySQL 	
ACTIVITIES	
	2019 - Like, right now
Led team in porting websites to Next.js and Typescript, drastically improving website SEO, initial page load times and codebas	•
Integrated membership functionality into club directory website, enabling hundreds of freshman to indicate interest in clubs d	
Refactored API routes supporting a complete frontend website rewrite in React, improving the user experience for its thousand	ds of weekly users
 Worked with Python, Typescript, Django, React 	
	020 - Also right now
Mentored developers in porting the newspaper's website to Gatsby and Typescript, modernizing the website design and codek	
Designed subscriptable GraphQL API linking a legacy PHP headless CMS, a React Native reader app, and the redesigned websi	
Worked with Data Analysis team to collect, analyze and present data about the University of Pennsylvania as custom websites	5
 Worked with Typescript, React, Apollo, Google Cloud 	
	2019 (Not right now)
Wrote and debugged code for custom PCBs and Desktop to track speed, temperature, tilt, and other parameters to analyze ca	
Redesigned PER's proprietary serial protocol, reducing wasted bytes, allowing tracking of up to 3x more raw data across the car	CAN bus
 Worked with C#, C++ 	
PROJECTS	

PROJECTS

Pennbook (Facebook Best of NETS 212 Prize) - pennbook.net

- * Designed, built and deployed Facebook-like website from scratch complete with live post, comment and messaging notifications via websockets
- Leveraged best practices for website design including SEO, caching and SSR without relying on third-party packages like React or NextJS *
- * Setup Apache Spark daily cron job on AWS which generates friend recommendations for users from user friend graph data

LectureHub (YHacks 2018 Wix Code Prize 2nd Place) - devpost.com/software/lecturehub

- LectureHub is a website for students to help each other succeed in college by sharing notes, lectures, and other study materials ٠
- * Built backend for storing notes and other user data complete with authentication and user voting on content quality using Flask and AWS
- Coordinated a team of three other developers to integrate backend with JS frontend and Swift mobile app in under 36 hours *

Tellr (Capital One SES S19 Honorable Mention)

- * Through UI design, Tellr makes using the ATM more accessible for everyone, from the dyslexic to the elderly to the visually impaired
- * Co-developed/designed accessible, voice enabled mobile app, website, and virtual ATM mockup using React, React Native, and Express
- Constructed API endpoints connecting MongoDB Atlas and Google Cloud for voice recognition and user authentication features *
- TeaBot (HKN Best Engineering Team) devpost.com/software/teabot-e5dwsc
 - Developed OpenCV solution using a depth camera for a robot which automates the labor-intensive tea picking process *
 - * Ported existing Matlab reverse kinematics code into Python and integrated kinematics and CV code together

TECHNICAL SKILLS