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	<ul style="list-style-type: none"> ◦ Contributed to the design and implementation of <i>SSLANG</i>, a real-time functional synchronous programming language with deterministic concurrency. ◦ Implemented compiler components, such as constraint-based HM(X) type elaboration, pattern-match anomaly detection, pattern-match compilation, etc. ◦ Led the type system group and hosted weekly meetings. 	
	Causal Tracing from System Logs through Natural Language Processing	Spring 2020
	<i>Undergraduate research project, supervised by Prof. Junfeng Yang.</i>	
	<ul style="list-style-type: none"> ◦ Explored application of natural language processing models in system log analysis. ◦ Used BERT language model to trace root causes of errors for systems like Apache Web Server. 	
Industry Experience	Amazon AWS	Summer 2022
	<i>SDE Intern</i>	<i>Seattle, U.S.</i>
	<ul style="list-style-type: none"> ◦ Designed and implemented a server failure detection and recovery system for the AWS IAM Core Services Team. 	
	Amazon AWS	Summer 2021
	<i>SDE Intern</i>	<i>Seattle, U.S.</i>
	<ul style="list-style-type: none"> ◦ Designed and implemented a data propagation system for the AWS IAM Core Services Team. 	
	Nexar Inc.	Summer 2019
	<i>DevOps Engineer Intern</i>	<i>Tel Aviv, Israel</i>
	<ul style="list-style-type: none"> ◦ Contributed to the migration to a Terraform-managed cloud infrastructure and a new CI/CD pipeline to significantly streamline DevOps procedures. 	
	Megvii	Summer 2018
	<i>SDE Intern</i>	<i>Beijing, China</i>
	<ul style="list-style-type: none"> ◦ Contributed to the development of a CNN-based SLAM robot and related software toolsets. 	
Projects	Pocaml: poor man's OCaml	
	<ul style="list-style-type: none"> ◦ A compiler written in OCaml for an OCaml-like functional language, with features such as polymorphic let-in bindings, lambda functions, pattern matching and a small standard library. 	
	Pac-Man clone on custom FPGA graphics	
	<ul style="list-style-type: none"> ◦ Implemented custom FPGA circuits for general-purpose hardware-accelerated 2-D sprite-and-tile graphics API. ◦ Implemented game logic, sprite graphics and game AI in C. ◦ Implemented drivers for the custom hardware and USB SNES controllers in C. 	
	PM: a parallelized minimax chess engine in Haskell	
	<ul style="list-style-type: none"> ◦ A minimax Chess Engine implemented in Haskell with a combination of parallelization strategies and alpha-beta pruning. 	
	Spoof: an IOS stickers app	
	<ul style="list-style-type: none"> ◦ An IOS app to create, send, and share iMessage stickers. Available on IOS App Store. 	
Seminars & Reading Groups	Seminar on Theoretical Computer Science	Fall 2022
	<i>(Co-organizer) Formal Semantics of Programming Languages Group.</i>	<i>Columbia University</i>
	Coq Learning Group	Summer 2022
	<i>Weekly reading group with Columbia students.</i>	<i>Columbia University</i>
	Category Theory for Computer Scientists	Fall 2021
	<i>Weekly reading group with Columbia and Barnard students and professor.</i>	<i>Columbia University</i>
Additional Information	Languages	
	<ul style="list-style-type: none"> ◦ English (Native), Chinese (Native) 	