

EDUCATION	Columbia University , Graduate School of Arts and Sciences <i>Ph.D. in Computer Science</i> Advisor: Prof. Ronghui Gu	New York, N.Y. Fall 2018 – Spring 2019
	Columbia University , School of Engineering and Applied Sciences <i>M.S. in Computer Science</i>	New York, N.Y. Fall 2018 – Spring 2019
	Columbia University , Columbia College <i>B.A. in Computer Science</i> Honors: Phi Beta Kappa, <i>summa cum laude</i>	New York, N.Y. Fall 2014 – Spring 2018
RESEARCH EXPERIENCE	Reactive Atomic Transitions <i>Collaborators: Prof. Stephen Edwards, Prof. Ronghui Gu</i> <ul style="list-style-type: none">• End-to-end verified OS with abstract hard real-time execution and communication• Formalized temporal dataflow semantics for characterizing real-time computation• Designed optimal real-time scheduling policy using dynamic priority inference	Fall 2018 – present
	Functional Hardware Inference <i>Collaborators: Prof. Stephen Edwards, Amanda Liu</i> Adapted Hindley-Milner to infer data parallelism in Haskell-to-SystemVerilog compilation	Spring 2018 – Fall 2018
	Android Epoxy <i>Collaborators: Alex Van't Hof, Prof. Jason Nieh</i> Modified Android Binder IPC to support communication over TCP/IP	Fall 2017 – Spring 2018
	Operating Systems Teaching Assistant <ul style="list-style-type: none">• Designed and wrote solutions for virtual memory assignment• Wrote guides and tutorials for Linux kernel development	Spring {2017,2018,2019}
TEACHING EXPERIENCE	Programming Languages and Translators Teaching Assistant <ul style="list-style-type: none">• Advised teams on their language design and compiler project in OCaml	Fall 2018
	Advanced Programming Teaching Assistant <ul style="list-style-type: none">• Developed tooling for automated grading and course management	Spring 2016, Fall {2016,2017,2018}
	WhatsApp <i>Software engineer intern, Media Server team</i> <ul style="list-style-type: none">• Deployed end-to-end distributed monitoring service• Developed alarm configuration framework with extensible API	Menlo Park, C.A. Summer 2017
INDUSTRY EXPERIENCE	Symphony Communications <i>Backend intern, Core Services team</i> <ul style="list-style-type: none">• Automated local Docker and Vagrant integration tests• Designed Java Annotation library for database-agnostic data transport	New York, N.Y. Summer 2015
	Musical Director, Columbia Kingsmen <ul style="list-style-type: none">• Columbia's oldest, all-male doo wop a cappella group• Led rehearsals, wrote arrangements, conducted performances	Spring 2015 – Spring 2018
NON-TECHNICAL		