Johann Miller jkmiller@umd.edu — johannmiller.com — github.com/johannkm			
Education	University of Maryland , College Park B.S. in Computer Science, Honors. <i>GPA: 3.9/4.0</i>	Sep 2016 - May 2	2020
Experience	 Airbnb, Software Engineering Intern Jun 2019 - Aug 2019 Created a presentation service for an SOA migration (Java) Built a code generator for adding policies to a rules engine (Ruby) Improved failure modes and observability of a rules engine (Scala) 		
	 Databricks, Software Engineering Intern Enabled real-time log and metric delivery (Kafka/Scala/ Built a high performance service for processing and cach Added online functionality to approximate counting in S 	ning streaming data	
	 Flatiron Health, Software Engineering Intern Reduced time of diagnosis lookup by 75% (self-managed Built ETL pipelines for Elasticsearch ingestion (Python, Created diagnosis recommender system (Tensorflow/Rea 	/PostgreSQL)	2018
	 NASA, Software Engineering Intern Jun 2017 - Aug 2017 Developed a package manager for a satellite operating system (Ruby) Built a kit combining satellite and ground system software 		2017
Research	 arch Distributed Databases, University of Maryland Designing and building a geo-replicated deterministic DBMS (C++) Working in the lab of Prof. Daniel Abadi 		rent
	 Project Sidewalk, University of Maryland Analyzed data quality of crowd-sourced street-accessibilit Worked in the lab of Prof. Jon Froehlich 	Aug 2017 - Jan 2 y data (Python/Sci	
	 National Cancer Institute, NIH Jun 2015 - Aug 2016 Built RNA 3D structure predictor using simulated annealing (Java) Published in Nucleic Acids Research: Functionally-interdependent shape-switching nanoparticles with controllable properties 		
Teaching	CMSC389F Reinforcement Learning, InstructorDesigned and taught a course on AI, advised by Prof. J	Aug 2018 - Dec 2 ames Reggia	2018
	 CMSC351 Algorithms, Teaching Assistant Taught students principles of algorithms under Prof. Cl 	Aug 2018 - Dec 2 yde Kruskal	2018
Awards	CS Departmental Scholarship, University of Maryland 1st Prize, Johns Hopkins Hackathon Presidential Scholarship, University of Maryland	2	2018 2017 2016
Skills	Experienced: Java, Python Familiar: Scala, C++, SQL, Ruby, Kafka, Spark, Elasticsearc	ch, Kubernetes	