

Luke Vu

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Education	University of Massachusetts Boston <i>BS in Computer Science</i> GPA: 3.86 Boston, MA			Sep 2019 May 2021
Courses	Compilers Software Engineering Theory of Computation	Operating Systems Database Management Systems Computer Architecture & Org.	Mobile App. Development Struct. of High Level Lang. Advanced Algorithms	
Skills	Languages: Technologies & Tools: Operating Systems:	Java, Python, Kotlin, C, C++, SQL, Scheme, HTML, CSS, JavaScript, LaTeX Docker, Apache Airflow, MongoDB, Gatsby, Git Ubuntu Linux, Windows		
Projects	j- Compiler, Java j- is a compiler built with a hand written scanner, parser, AST/context/type representations, and JVM/MIPS code emitter for the j- language, a non-trivial subset of Java. Data Pipeline for US Case Law, Python, Docker, Airflow, MongoDB This is an automated Extract-Transform-Load pipeline that retrieves and stores US Court Law data into a database utilizing parallel processing and a standardized and consolidated data model. MBTA Buddy, Kotlin, Android Studio This is an Android mobile application that leverages the publicly available MBTA API to provide predictions for train/trolley arrivals at MBTA stops.			
Experience	United States Marine Corps Reserves Chicopee, MA <i>Platoon Sergeant</i> <ul style="list-style-type: none">• Manage training, health and welfare, morale, discipline, and performance of personnel• Mentor junior enlisted in leadership and management• Advise senior enlisted on planning and execution of all training and operational readiness <i>Aviation Communication Systems Technician</i> <ul style="list-style-type: none">• Perform and supervise the maintenance of radios and communications systems• Run installation, operation, performance testing, alignment, and troubleshooting of all voice communications equipment, encryption devices, electronic assemblies and subassemblies, fiber optic cables, and system software• Diagnose and isolate equipment malfunctions to the fault, and verify that the malfunctions were fixed• Conduct periodic inspections and perform necessary preventative maintenance on various systems and equipment• Maintain necessary documentation of diagnostics and operational tools, test equipment, and supplies			Aug 2016 Present
Misc.	Security Clearance: DoD Secret Clearance Awards & Honors: Dean's List (all semesters), Summa Cum Laude Interests: maker projects, 3d printing, photography Volunteering: Mentor for FIRST Robotics Competition Team HYPER 69			