

Michael Koohang

Website: michaelkoohang.github.io • GitHub: @michaelkoohang

Education

M.S. in Computer Science	Georgia Institute of Technology	Aug. 2019 – May. 2021
<ul style="list-style-type: none">Specialization in Human-Computer Interaction (GPA: 4.0/4.0)Relevant Coursework: Principles of UI Software, Ubiquitous Computing, Human-Computer Interaction, Mobile Apps and Services, Empirical Methods in HCI		
B.S. in Information Technology	Middle Georgia State University	Jun. 2016 – May 2019
<ul style="list-style-type: none">Specialization in Software Engineering (GPA: 4.0/4.0)Relevant Coursework: Data Structures and Algorithms, Database Principles, Software Engineering, Software Security, Operating Systems, Computer Architecture, Software Testing & QA		

Experience

Software Engineer Intern	Nike	June 2020 - August 2020
<i>Targeted Marketing Platform [Decision Engine]</i> <ul style="list-style-type: none">Starting June 16th		
Graduate Research Assistant	Georgia Institute of Technology	Jan. 2019 – Present
<i>HouseATL & HikerNet</i> <ul style="list-style-type: none">Implemented parsing algorithm leading to time complexity decrease from $O(n^2)$ to $O(n)$Applied test-driven-development to the development life cycle, leading to over 50 errors being caught during code changesImplemented duplicate checking of addresses, saving over 500 API calls per upload request		
Graduate Teaching Assistant	Georgia Institute of Technology	Jan. 2020 – May 2020
<i>CS 6310 - Software Architecture and Design</i> <ul style="list-style-type: none">Analyzed UML diagrams and conducted code reviews for a course of 500 studentsAnswered over 15 discussion questions per week on PiazzaGraded over 30 assignments every week, critiquing and commenting on software design diagrams and Java code		
Civic Data Science Intern	Georgia Institute of Technology	May 2018 – Jul. 2018
<i>RatWatch (ratwatch.lmc.gatech.edu)</i> <ul style="list-style-type: none">Integrated Twilio API with Flask web app to support data collection through an SMS chatbotIntegrated server-side sessions to allow numerous users to interact with the chatbot at the same timeGarnered over 100 sighting and evidence reports and presented project to Atlanta city officialsDeveloped metadata extraction tool to geocode images with the Google Maps API		

Projects

WWDC19 Playground	Apple	Jun. 2019
<ul style="list-style-type: none">Awarded a scholarship out of 350 people in the world to attend WWDC19 in San Jose, CADeveloped a puzzle-based app that educates users on how the iPhone protects people's privacyApplied object-oriented design patterns to UI components, decreasing code written by over 1000 lines		
Code in Place - Section Leader	Stanford University	Jan. 2019 - Present
<ul style="list-style-type: none">Taught a section in Stanford's online Code in Place program for learning programming during COVID-19Led 5 interactive sessions with students on Python programming projects with a class size of over 10 studentsCurated YouTube videos and educational content for students to learn Python programming concepts		

Skills

Languages

- (Proficient) → Python, Swift, Java, HTML, CSS, SQL (Familiar) → JavaScript, C, SASS

Software

- Xcode, Sketch, Blender, SwiftUI, UIKit, Core Data, Flask, SQLAlchemy, MySQL, PostgreSQL, node.js, React.js, Express.js, Git, Linux, REST, HTTP, Postman, Heroku, MongoDB