

# Jerome Steve Sahayadarlin

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## EDUCATION

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### George Mason University

B.S. in Computer Science

▪ **GPA:** 3.3/4.0

▪ **Courses:** Data Structures, Analysis of Algorithms, Low-Level Programming, Formal Methods, Discrete Math

Fairfax, VA

Expected December 2020

### Coursera Certification

Machine Learning by Stanford University

▪ **Topics:** Supervised vs Unsupervised learning, Support Vector Machines, Neural Networks, Deep Learning

Online

Completed July 2019

## EXPERIENCE

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### iOS Developer Intern

Nexus 8 International, LLC

- Developed an iOS Application that allows physicians to collaborate on unfamiliar medical cases for their patients
  - Built the application from scratch while maintaining consistent design and performance of other platforms
  - Worked alongside other engineers to plan the overall framework of the final product and its design
  - Followed iOS design principles throughout the application and utilized Firebase for the application's backend

Washington, D.C.

May 2019-Present

### Hackathon Participant

Major League Hacking

- Developed a variety of projects at multiple hackathons with a team of 3-4 participants
  - Bitcamp: built an ATM with Machine Learning that helped the visually impaired access their finances
    - Won Best Financial Hack by Capital One, Best Hack for Social Good Compass Challenge
  - HoyaHacks: created ML model to detect guns and reduced time it takes for law enforcement to react
    - Won 1<sup>st</sup> place Best Software Hack by Microsoft, placed 2<sup>nd</sup> for best use of AWS
    - 3<sup>rd</sup> place overall best Hack at Georgetown University Hackathon

Washington, D.C.

August 2017-Present

## PROJECTS

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### Machine Learning

Python Object Detection with Computer Vision

- Built software that can detect weapons using real-time camera footage (OpenCV)
  - Trained Model with Darkflow library on YOLO's Convolutional Neural Network Architecture
  - Collected images and annotated them for training dataset
- Deployment to Application:
  - Developed web dashboard to display locations and information of detection using Google Maps API
  - Implemented AWS SNS to alert users of any weapons detection
  - Software will contact law enforcement when a threat is detected allowing police to respond quicker

### iOS Development

Swift Programming Language

- Developed and submitted iOS and Android apps on the App Store and Play Store ~330,000 total downloads
- Most popular apps include:
  - Quattro Pong, a four-paddle pong game with a modern twist to the classic original (127,600 downloads)
  - Anagrams, a game that tests the user's logical thinking by rearranging letters (115,300 downloads)
  - Avoid, a game with gyroscopic features where the user dodges enemy characters (78,400 downloads)
  - Photon, a productivity app that integrates the iOS calendar to help the user stay on task (10,300 downloads)

## ACTIVITIES

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**Software Development Club** (Co-Founder) – student-run club that works on variety of software products

**PatriotHacks** (Organizer) – Organized hackathon at GMU and hosted an iOS development workshop for participants

## SKILLS, LANGUAGES & INTERESTS

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**Skills:** Python, Java, Tensorflow, Computer Vision, Swift, iOS Development, R, Objective-C, Quantitative Trading

**Interests:** Photography, Tennis, Video Editing, Hardware Projects (Raspberry Pi & Arduino)