

Jerome Steve Sahayadarlin

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EDUCATION

- **George Mason University** Fairfax, VA
Bachelor of Science in Computer Science *Expected Graduation: Dec. 2020*
 - **Relevant Courses:** Analysis of Algorithms, Data Structures, Probability and Statistics for Engineers, Software Engineering, Linear Algebra, Formal Methods and Models, Computer Systems and Programming, Discrete Math

CERTIFICATIONS

- **Neural Networks and Deep Learning** Achieved: Jan. 2020
deeplearning.ai *Certificate ID: L5EN87BLXX6A*
 - **Topics:** Classification, Regression, Activation Functions, Forward/Back Propagation, Deep Neural Networks
- **Machine Learning** Achieved: Jul. 2019
Stanford University *Certificate ID: VVMNUHDTEPRA*
 - **Topics:** Supervised vs Unsupervised learning, Support Vector Machines, Neural Networks, Deep Learning

EXPERIENCE

- **iOS Developer Intern** Washington, D.C.
Nexus 8 International *May 2019 - August 2019*
 - Developed an iOS Application that allows physicians to collaborate on unfamiliar medical cases for their patients using the Swift Programming Language in Xcode along with Firebase for the application's backend.
 - Implemented user authorization and backend features to allow users to sign up, create a profile, and interact with other users within the app. Application was able to be deployed to a small group of physicians for testing.
 - Redesigned the original outdated application to a modern user interface and updated the original codebase so that the application could migrate from using Ruby to Firebase which made backend prototyping 50 percent faster.

PROJECTS

- **EyeBank (Python/Machine Learning)** University of Maryland - College Park
BitCamp Hackathon *Apr. 2019*
 - **Awards:** **1st Place** Best Financial Hack by Capital One, **1st Place** BitCamp Compass Challenge
 - Built an ATM with Machine Learning that helped the visually impaired access their finances. Made use of AWS lambda, Convolutional Neural Network for facial detection with Python, and Raspberry Pi for ATM.
- **No More Shootings (Python/Deep Learning)** Georgetown University
HoyaHacks Hackathon *Feb. 2018*
 - **Awards:** **1st Place** Best Software Hack by Microsoft, **2nd Place** Best Use of AWS, **3rd Place** Best Overall
 - Developed a Machine Learning model to detect guns and alert local authorities of a threat. Took advantage of AWS SNS service for push notifications and YOLO Computer Vision framework for detecting weapons in real-time camera footage (OpenCV).
- **CollegeBoard Data Analysis (R language)** George Mason University
Data Science Final Project *Dec. 2017*
 - Performed a statistical analysis find certain trends at 4,000+ universities in the United States. Used R, RStudio, RMarkdown, dplyr, ggplot2 to analyze datasets in CSV file with 5,000+ data variables.
 - Concluded that Average faculty salaries at private universities are 15-20 percent higher than at public universities. Results also showed that SAT scores are 7-10 percent higher in counties which receive 10-20 percent higher incomes.

ACTIVITIES

- **Software Development Club (Co-Founder):** Student-run club that works on variety of software projects.
- **PatriotHacks (Mentor):** Mentored hackathon at GMU and hosted an iOS development workshop for participants.

PROGRAMMING SKILLS

- **Languages:** Python, Java, Swift, C, Objective-C, HTML/CSS
- **Technologies:** AWS, Keras, Tensorflow