James Bocinsky

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Education

Master of Science in Electrical and Computer Engineering (Thesis) May 2019

University of Florida, Gainesville, FL

GPA: 3.79/4.0 (Publications on website)

Specialty: Machine Learning, Big Data, Biometrics, Dig. Signal Proc., Image Proc. and Comp. Vision, Time Series Analysis

Bachelor of Science in Computer Engineering Dec 2017

University of Florida, Gainesville, FL

GPA: 3.76/4.0 (Cum Laude, HKN inductee, member of IEEE, UFAI, & ACE)

Embedded systems and machine learning senior projects (on website)

Work Experience

Machine Learning & Software Engineer June 2019 - present

American Express | Sunrise, FL

- Tech lead on python based slack bot utilizing automation scripts to eliminate need for human monitoring of infrastructure
- 1st place of 200+ participants in company Kaggle competition predicting which card members would apply for personal loans
- Tech lead on team of 8 engineers developing personalized videos for card members by consuming distributed data sources
- Lead developer of end to end XGBoost model, utilizing > 14,000,000 samples to predict when targeted card members will call to make a payment, obtaining an out of time/sample F1 score of 0.82, email precision of .97, and payment recall of .99
- Maintained XGBoost model consuming 250+ features to predict top 3 of 16 servicing intents with 76% accuracy

Graduate/Undergraduate Research Assistant Nov 2016 – May 2019

Machine Learning and Sensing Lab | Gainesville, FL

- Implemented an end to end framework for algorithm training and testing for more than 6,000,000 data samples
- Journal published a multiple instance learning algorithm for target detection of multiple landmine types (on website)

Embedded & Software Engineering Internships May – Aug, 2016 & 2017

Harris Corporation | Melbourne, FL

- Prototyped a multicast protocol on the TI Hercules microcontroller for use across the T7 robot's control systems
- Implemented and tested a smart battery status controller area network (CAN) messaging protocol
- Implemented a thread pool executor to handle a high throughput of producer/consumer messages for FAA data exchange

Skills, Leadership, & Affiliations

Tech Skills

- Machine Learning, Data Visualization, Python, Matlab, Java, C, C++, Assembly, Linux, Shell scripting, and Latex
- Agile Development, Git, PCB Design, Embedded Systems programming, and SolidWorks Certified

Leadership

- Proven top performer by obtaining top 10% role-model rating in performance and leadership at AMEX   2019, 2020
- Machine learning course designer and lead instructor for 11 of 12 lectures at the University of Florida (on website)   2018
- Website manager, exec board member, and player of the University of Florida Men's Club Soccer Team   2013 – 2017

Interests

- Personal website, building electronics and computers, car projects, stock trading bots, coding challenges, and hackathons