Nick Sarris

May 12, 1998
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Education

University of Virginia - School of Engineering and Applied Sciences : Majoring in CS with a focus in Software Engineering / Machine Learning

Classes Taken

Computer Science:
CS2102: Discrete Math, CS2110: Software Development Methods, CS2150: Program and Data Representation, CS3102: Theory of Computation, CS3240: Advanced Software Development, CS3330: Computer Architecture, CS4102: Algorithms, CS4414: Operating Systems, CS4501: Machine Learning, CS4630: Defense Against the Dark Arts, CS4720: Mobile Application Development, CS4753: Electronic Commerce Technology

Math/Sciences:
APMA1110: Single Variable Calculus II, APMA2120: Multivariate Calculus, APMA2130: Ordinary Differential Equations, APMA3080: Linear Algebra, APMA3100: Probability, CHEM1610: Chemistry I for Engineers, PHYS1425: Physics I, PHYS2415: Physics II

Skills

Languages/Toolkits:
Python, Flask, Django, HTML, CSS, Javascript, React.js, Redux, Webpack, Node.js, MongoDB, AWS, Express, REST, JQuery, C++, SQL (Postgresql, MYSQL, etc), Bash, Latex, Solidity, Swift, Firebase, C, Java, PHP

Software:
Microsoft Office (Word, Excel, etc), Linux, Mathematica, Matlab, CAD modeling (AutoCAD), Unity, Github (Gitkraken, etc), Various IDEs (Pycharm, Eclipse, Atom, etc)

Work Experience

June '19 — Technical Intern — Northrop Grumman
Used Python and Flask to implement and test a REST API leveraging a document summarization micro-service implementing Machine Learning (NLP) techniques that I built using a BERT-Base model fine-tuned on an expansive dataset of CNN news articles

June '18 — Technical Intern — Northrop Grumman
Used Python, PyQT, and Django to code a GUI and web application that implemented Machine Learning (NLP) techniques to classify and score blog articles found on the Internet, exploring how similar the content was to cybersecurity TTPs (Tactics, Techniques, and Procedures) found on MITRE's ATTACK table.

June '15 — Research Intern — Nasa Langley Research Center
Used Python to code a program that implemented Machine Learning (Image Processing) techniques to analyze/scan carbon-fiber sheets for imperfections after they had been hurled at a wall, testing their structural integrity for later use.

Research and Projects

Current — Stipend, the Freelancing Platform
Leveraged existed blockchain code to develop the blockchain and wallets currently integrated and running smoothly on the Stipend network of more than five thousand computers. Beyond this, I'm working alongside three other developers to code the Stipend platform, a scalable responsive, freelancing web application built off of the Stipend blockchain

Current — Kaggle/Numerai
For the last five years, I've been competing in various Machine Learning competitions on both Kaggle and Numerai, learning all I can throughout. Kaggle is a site where companies sponsor competitions for anyone to participate in, whereas Numerai is a cryptocurrency hedge fund that hosts weekly competitions to use anonymized data in order to predict future stock market prices.

Current — Emparon
Currently building from scratch an expansive web application (SaaS) that implements a MERN (MongoDB, Express, React.js, Node.js) technology stack.

Feb '19 — Algorithmic March Madness
Created an extensive Machine Learning model that predicts the outcome of March Madness games using inferences gained from a variety of sources, including Kenpom's ratings, the Massey Ordinals, and Vegas Odds

Sep '17 — Prism, an Autonomous Trading Bot
Built from scratch an automated trading bot for cryptocurrency that leverages Bittrex's (a cryptocurrency exchange) API to process individual trades.

Competitions

Jun '19	Jigsaw Unintended Bias in Toxicity	Kaggle (45th / 3165)
Apr '16	Expedia Hotel Recommendations	Kaggle (89th / 1974)
Feb '17	Allstate Claims Severity	Kaggle (114th / 3055)
Jun '16	Predicting Red Hat Business Value	Kaggle (108th / 2271)
Apr '16	Home Depot Product Search Relevance	Kaggle (137th / 2124)