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EMPLOYMENT

Data Engineer, Intern — **The Hartford** — **Summer 2020**
Commercial Lines Data Science
- Built and deployed a data science application that triages accounts using insights from risk and volatility models.
- Leveraged the Spark and Hadoop ecosystem to combine third-party and in-house datasets to deliver model-ready data.
- Developed a set of recommendations to build and deploy a NoSQL database on AWS.
- Proposed an inter-departmental deployment routine that expedited the shipment of production-ready data frontends that otherwise took several weeks.

Cybersecurity Researcher — **Connecticut Cybersecurity Center (C3)** — **January 2020 – June 2020**
- Developed open-source dashboards in Angular that integrated results from REST services to support initiatives calling for secured inter-domain routing.
- Enhanced the ROV Forecast web service by providing estimates on the impact of deploying different variants of RPKI's Routed Origin Validation by different autonomous systems.
- Collaborated with industry sponsors to accelerate the shipment of repairs.

Web Development Specialist — **University of Connecticut** — **May 2019 – June 2020**
Office of Student Financial Aid Services
- Designed and maintained PHP and AngularJS web applications within departmental guidelines.
- Spearheaded the establishment and integration of a document sharing platform using the Microsoft Graph REST API – decreasing the number of network and storage errors by 90%.

Software Engineer, Intern — **National Science Foundation (NSF)** — **Summer 2019**
Research Experience for Undergraduates (REU)
- Implemented and incorporated several applications into a multimodule Android application that enables real-time depression monitoring using smartphone metadata.
- Devised methods that enabled the collection of active and passive data through various sensors in a smartphone.
- Dispatched the application to adult subjects whose data assisted in providing predictive mental health diagnostics.

EDUCATION

Storrs, CT — **University of Connecticut** — Expected**: May 2021**
- B.S.E. in Computer Science and Engineering with Minor in Mathematics. GPA: 3.55.
- **Graduate Coursework**: Social Media Analysis; Financial Data Mining; ML for Time Series Analysis; Urban Computing
- **Undergraduate Coursework**: Databases; Big Data Analytics; Algorithms; Cloud and Distributed Systems; Statistics

ADDITIONAL EXPERIENCE AND AWARDS

- **Technical Writer – Google Season of Docs**. Expand the official documentation of the NumPy library.
- **Machine Learning Researcher – Dr. Derek Aguiar's Lab**. Explore the applications of machine learning in law.
- **Android Developer – Dr. Carolyn Lin's Lab**. Develop a prototype for a storm assistant for emergencies.
- **National Finalist – KPMG Ideation Challenge** (2020). Presented business cases to executives; top 5 out of 45+ teams.
- **Teaching Assistant – Systems Programming** (2019). Taught processes, pipes, multithreading, and sockets; 5.0/5.0 rating.

PROJECTS

- **Detection of Lymph Node Metastases in Diagnostic Images** (2020). Formulated deep learning models that scanned for the existence of metastases – the development of secondary malignant growths near a primary site of cancer.
- **Machine Learning Methods for Classifying Disaster Relevant Tweets** (2019). Mined and preprocessed Tweets from over 10,000 monthly active users and generated semi-supervised models.

LANGUAGES AND TECHNOLOGIES

- Python, Java, C, SQL, HTML, CSS, JavaScript, PHP, Scheme
- Angular, AngularJS, Dash
- Hadoop, Spark, Hive, Microsoft Azure, Google Cloud Platform, Docker
- NumPy, pandas, Matplotlib, scikit-learn, Keras, TensorFlow