Brian Model

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Education

Georgia Institute of Technology, College of Computing   Aug 2018–May 2022
– Bachelor of Science (B.S.) in Computer Science, 4.0 GPA
– Concentrations in Machine Learning and Computer Systems/Architecture
– Relevant Coursework: Data Structures and Algorithms, Discrete Math, Linear Algebra and Multivariable Calculus

Ramapo High School   2014–2018
– Valedictorian and member of Engineering University Program

Experience

Software Engineering Intern, NCR Corporation   May 2019–Aug 2019
– Initiated and built core infrastructure for automating test environment creation on ATMs by building a continuous delivery pipeline for deploying new software releases to testers.
– Test environment creation time went down from around 2 hours to 30 minutes, allowing for issues to be detected and resolved more efficiently.
– Worked with a small DevOps team in a Scrum and Kanban based Agile Environment.
– Tech used: Python, Chef, GoCD, Vagrant, VirtualBox, JIRA API, NuGet

Software Engineering Intern, The Home Depot   Jan 2019–May 2019
– Developed a mobile application for indoor positioning using Wi-Fi signals. Used machine learning and SLAM for localization based off of received signal strength readings.
– Tech used: Python, JavaScript, Flask, Scikit-Learn, SQLAlchemy, React Native

Research

Undergraduate Research Assistant, Georgia Tech Robotic Musicianship Group   Jan 2019–Present
– Working with Prof. Gil Weinberg in developing a tool to generate an orchestral version of a piece of music with an ensemble of up to 12 instruments given only the piano score.
– Using Recurrent Neural Networks and Word2Vec musical chord embeddings.
– Tech used: Python, TensorFlow, Keras, Word2Vec

Projects and Accomplishments

HackGT 2018 Winner, Finterest   Oct 2018
– Led a team of three in developing a Chrome Extension to improve financial literacy by detecting and defining key terms in financial articles, summarizing the content using Natural Language Processing, and provide relevant financial data needed to contextualize the article.
– Won Best Financial Hack and Best use of Blackrock API prizes, and placed in top 8 out of around 1000 hackers.

Home Depot Hackathon Winner, Beacon   Sept 2018
– Built an Android app for indoor navigation using Bluetooth Beacons to determine current location, and direct someone to their desired destination.
– Came in first place out of about 80 hackers.

Skills and Hobbies

Programming Languages, Frameworks and Technologies
– Python, Java, JavaScript, Git, Chef, AWS, Flask, React Native, Vagrant, VirtualBox

Spoken Languages
– English and Russian

Interests
– Jazz and Classical Piano