Yi Yang

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EDUCATION

Bowdoin College   Brunswick, ME
Bachelor of Arts in Computer Science and Math, GPA: 3.925   *Aug. 2020 – May 2024*
- College Courses: Algorithms, Foundations of Computer Systems, Data Structures, Programming with Data, Linear Algebra, Calculus 3, Java for Android, Intro to Mobile Product Development
- High School Courses: Digital Electronics, Web Development, Intro Java, Fundamentals of IT Infrastructure, Big Data

TECHNICAL SKILLS

Languages: Python, Java, Visual Basic for Applications, MySQL, Shell Scripting, Javascript, HTML5, CSS
Frameworks: WordPress, Flask, Heroku
Developer Tools: Git, PyCharm, VS Code, Eclipse
Libraries: pandas, NumPy, scikit-learn, InstaPy, Selenium

EXPERIENCE

Data Structures Learning Assistant   Aug 2021 – Present
Bowdoin College   *Brunswick, ME*
- Review and teach concepts from lecture, work out problems step-by-step, resolve any misconceptions, and help students on lab assignments, including working through logic and debugging code.

Undergraduate ML Researcher   June 2020 – Present
University of North Texas | ***pandas, NumPy, sckit-learn***   *Denton, TX*
- Performed multi-class text classification on legal contracts in the sentence-level and document-level.
- Developed a machine learning pipeline with data extraction from CUAD (Contract Understanding Atticus Dataset), data pre-processing, feature selection using tf-idf, and model training consisting of several traditional classifiers such as MultinomialNB, Cart, SVC, Random Forest, XGBoost, etc.
- Conducted hyper-parameter tuning, resulting in increases ranging from 15% to 100% in validation accuracy across the classifiers used.
- Analyzed research results against novel deep learning models in research paper.

Webmaster and Digital Director   Jan. 2021 – Present
Bowdoin College | ***PHP, Javascript, JQuery, WordPress, MySQL***   *Brunswick, ME*
- Communicate with Editors about weekly home-page changes and implementing requested features.
- Responsible for organizing development team and reviewing/approving commits before merging into master.

Coding Instructor   Mar 2020 – Jun 2021
Code Ninjas | ***LearnToMod Blocky***   *New York, NY*
- Taught 10 children ages 7-12 programming in a virtual setting.
- Planned and tailored 16 weeks worth of in-house curriculum for virtual coding sessions to each student.
- Engaged with parents on child's performance, leading to a 100% return rate per cohort.

Software Engineer Intern   Jun 2019 – Aug 2019
Consolidated Edison | ***VBA, Microsoft Excel***   *New York, NY*
- Automated Excel data entry using Visual Basic for Applications, saving users 3 hours per use on average
- Independently learned Visual Basic for Applications. Automated over 450 rows of data worth 5.5MB.
- Implemented 3 additional user scripts to aid data analysis after program execution, saving users 1 hour of manual lookup time.

PROJECTS

H&M Account Generator | *Python, Selenium, Flask, Heroku*   Github Link
- Developed a script to automatically create a fresh H&M account, and displays log-in info on Flask frontend.
- Uses the GuerillaMail API and PasswordGenerator API to generate the email and password, respectively.

U.GG Discord Bot | *Python, Selenium, Flask, Discord API*   Github Link
- Developed a discord bot that retrieves champion information from the popular game League of Legends with a set of in-house commands.