Brian Lau

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EDUCATION

University of Maryland: College Park College Park, MD
B.S. Computer Science and Mathematics Aug 2021 - June 2024
GPA: 4.0/4.0

EXPERIENCE

Northrop Grumman - Mission Systems May 2022 - Aug 2022
Software Engineering Intern Baltimore, Maryland
- Utilized the Atlassian SDK accompanied by HTML, Java, and Python to create a home made Jira plugin.
- Worked with the Jira REST API and web hooks to gather information on the current server.
- Created a web application with a Java backend and Python + HTML/CSS frontend to display all plugin information onto the current Jira network
- Employ Jenkins and Git to streamline more efficient builds and tests of the plugin.
- Received active Secret security clearance.

University of Maryland: College Park - CMSC May 2022 - Current
Teaching Assistant (TA) College Park, Maryland
- Grading TA for CMSC132 (Object-Oriented Programming II)
- Hold weekly office hours and study sessions for students, helping answer questions and guide them on projects
- Grade hundreds of projects and exams weekly for style and accuracy

University of Maryland: College Park - Club Running January 2022 - Current
Webmaster College Park, Maryland
- Use HTML/CSS + PHP to build and maintain the club running website
- Manage performances for over 100+ athletes throughout the year in an SQL database.
- Apply Git inside of CPanel to maintain accurate version control

PROJECTS

Four-Year Plan Generator Aug 2022 - Current
Repo: fourYearPlan
- Currently working on a web application that will simplify creating four-year plans for all majors
- Using React for the frontend and Python Flask for the backend

Strava Jokes July 2022 - Aug 2022
Repo: stravaJokes
- Appends a random joke of the day onto any uploaded Strava activity using requests and REST APIs
- Use Python Flask and web hooks to listen for activity triggers

TECHNICAL SKILLS

Programming languages: Assembly (MIPS), C, C#, C++, HTML, Java, JavaScript, MATLAB, Python
Developer Tools: Confluence, Docker, Git, Jenkins, Jira, Maven
Frameworks/Libraries: CSS, Flask, JUnit, Matplotlib, Numpy, NodeJS, React, REST APIs, Servlets, SQL, Unity
Miscellaneous: Bash, cURL, Latex, Linux, Microsoft Office, Unix, Postman, Windows

RELEVANT COURSEWORK

Computer Science: Algorithms (CMSC351), Computer Systems (CMSC216), Data Science (CMSC320), Discrete Structures (CMSC250), Object-Oriented Programming I,II (CMSC131,132), Organization of Programming Languages (CMSC330)
Mathematics: Calculus I-III (MATH140,141,241), Linear Algebra (MATH240), Number Theory (MATH406), Probability Theory (STAT410)

ACHIEVEMENTS

Dean's List	Awarded to computer science students who complete 12 or more credits with a semester GPA of 3.5 or higher (Fall 2021, Spring 2022)	2022
John D. Gannon Scholarship	Scholarship established in 1999 in tribute to John D. Gannon to recognize and fund outstanding UMD Computer Science students.	2022
Senatorial Scholarship	Scholarship awarded to residents of Ellicott City, MD who are pursuing higher level education and pursuing their career goals	2022
NG Student Scholarship	Scholarship awarded to Northrop Grumman interns chosen on the basis of academic performance and demonstrated leadership in school/community activities.	2022
Eagle Scout	Planned and designed the creation of 12 workbenches for a new farm, also serving as multiple leadership roles throughout the years.	2021