

Bryan Bee

U.S. Citizen | Active Secret Security Clearance

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Education:

California State University, Los Angeles

Expected: 05/2025

Bachelor of Science, Computer Science

GPA: 3.9

- Dean's Honor List: All Semesters

Work Experience:

Software Engineer Intern | Partillion BioScience

02/2024 - 05/2024

Python, Jython, Tk-Inter, OpenCV, ImageJ, API Integration, Automation

Pasadena, CA

- Spearheaded the development of an OpenCV-based particle analysis program for nano-vial detection and analysis, resulting in a 35% improvement in batch quality control and streamlined production evaluation.
- Developed a Jython script in ImageJ to automate the merging of color channels for nano-vial production images, resulting in significant reduction in the manual work in creating composite images.
- Conducted comprehensive debugging across multiple programs and actively maintained existing software by creating detailed documentation, which enhanced system reliability and addressed technical debt.

Software Engineer Intern | Northrop Grumman

06/2023 - 08/2023

Git, JIRA API, Python, Pandas, Matplotlib, NumPy

Baltimore, MD

- Collaborated with product owners and my team of engineers to automate metrics generation in Python, which resulted in a 90% reduction in the manual workload for metrics collection across all projects and teams.
- Led the development of our backend data pipeline which provided half the metrics for our automation platform.
- Systematically conducted code testing, including bug replication, debugging, and post-resolution testing.

Project Experience:

Housing Price Prediction Model

10/2023 - 11/2023

Python, TensorFlow, PyTorch, Pandas, Scikit-Learn

- Trained a machine learning model to predict housing prices by collecting historical sales and pricing data.
- Deployed the model for real-world use, utilizing both classification and regression techniques to achieve housing price predictions resulting in 96% model accuracy.

Metrics Automation

06/2023- 08/2023

API, Git, Python, NumPy, Pandas, Flask, HTML, CSS

- Utilized Python and the JIRA API to automate the generation and presentation of key metrics, including release backlog stability, project backlog stability, and sprint volatility.
- Provided users from various teams and projects with the ability to access their metrics, which facilitated progress tracking and efficient planning, and resulted in a 95% reduction in manual data collection and reporting efforts.

Hospital Management System

01/2023 – 05/2023

Java, HTML, CSS, Bootstrap, MySQL

- Engineered a web application designed to provide hospitals with an intuitive interface for viewing and editing patient and vaccine information.
- The service offered user-friendly patient and vaccine data management for healthcare providers.

Leadership Experience:

Technical Interview Prep. for Software Engineers (TIPSE) | President and Founder

09/2022 - 05/2024

- Founded and led a student organization to help aspiring software engineers prepare for technical interviews.
- Expanded the organization's membership from 4 to 87 members within the past year.
- Responsible for organizing meetings for members, leading sessions using online resources, facilitating mock interviews, and teaching members common technical interview topics such as BFS/DFS, two-pointers, etc.

Technical Skills:

Languages: Java, Python, SQL, HTML, CSS, JavaScript, Kotlin, C++, C, JQL

Libraries/Frameworks: Flask, Bootstrap, React.js, Node.js, NumPy, Pandas, Matplotlib, PyTorch, TensorFlow, Scikit-Learn

Tools: Agile Development, JIRA, Version Control (Git), MVC Architecture, JSP, REST-API, Java Servlets, Linux/Unix, OAuth, Supervised ML Approaches (Regression, Classification)