

Bony Patel

PHILADELPHIA, PA

Software Engineer with experience modernizing C# ASP.NET and Python applications as well as multi-threaded, high performance C++ backend development.

Technical Skills

PROGRAMMING LANGUAGES, TECHNICAL TOOLS AND FRAMEWORKS

- C#, C++, Python, Java, HTML/CSHTML, Oracle SQL Server
- ASP.NET Framework, jQuery, Git, Linux/Unix Based OS, Scrum/Agile Development Environment

Experience

Bank of New York Mellon

Pittsburgh, Pennsylvania

SENIOR SOFTWARE SPECIALIST

Sept 2022 - Nov 2023

- Contributed to the Remittance Processing Team with a focus on transforming thick client applications into streamlined and efficient thin client ASP.NET web applications
- Proficient in ASP.NET development, specializing in using jQuery to enhance user interactions and improving the overall security by implementing new security APIs
- Transformed an obsolete Java-based script into a Python-based script with a primary focus on improving data security and overall operational efficiency
- Engineered both tools in a full-stack capacity where I authored the database tables, the authentication functionality, all of the user functionality and the interface

Gnostech Inc.

Mount Laurel, New Jersey

MID SOFTWARE ENGINEER

June 2021 - Sept 2022

- Worked on the Interoperability team to implement new features and uphold existing code, contributing in the Development of the Oasis Simulator used by the US Navy
- Responsible for creating new features for embedded software and performing regression tests across three Navy baselines
- Incorporated numerous new messages to introduce additional functionality in simulating ballistic missile operations
- Mentored and provided guidance to a college co-op in software development principles, coding best practices, and project management techniques

Fannie Mae

Reston, Virginia

CLOUD SECURITY - ENGINEERING - SENIOR ASSOCIATE

Sept. 2020 - Mar. 2021

- Helped design and develop a reporting application that brought important encryption data from multiple different on-prem and cloud resources into a singular reporting tool hosted on Tableau
- Initiated the Agile development process and created the initial architecture to help move the application fully to the cloud
- Developed multiple Java APIs to automate Non-Functional Requirements that increased the team's ability to monitor and remediate incorrectly configured AWS resources
- Created a Python monitoring tool tailored to generate daily reports summarizing AWS CloudWatch Alarms and Events pertinent to critical AWS resources

ASRC Federal Mission Solutions

Moorestown, New Jersey

SOFTWARE ENGINEER, ASSOCIATE

Sept. 2018 - Sept. 2020

- Implemented new features and maintained existing C++ code to aid in the modernization of the Aegis Weapon System used by the US Navy
- Developed code for the system that takes in radar data and data from other ships which then decides what a target is, the nature of the target and how to engage that target
- Rigorously tested and analyzed the structure of a dozen different components by performing tests ranging from unit tests to large scale tests at a full scale Navy test facility
- Designed, implemented, and rigorously performance-tested a data validation API for crucial UDP messages resulting in increased system reliability by safeguarding against spam and invalid data inputs
- Worked with the unit testing team to help eliminate tech debt by writing new tests and fixing existing tests for legacy code to increase overall test coverage

Valeo Inc.

Troy, Michigan

SOFTWARE ENGINEERING CO-OP

June 2017 - Sept. 2017

- Increased software fidelity by developing a python tool to automatically run stress tests of new software releases, leading to increased productivity by removing the need for engineers to run tests manually
- Created an automated reporting system deployed on the Jenkins server, operating continuously for up to 96 hours, to meticulously compile and email comprehensive reports encompassing all software versions tested
- Developed an object oriented framework for a desktop tool that can be expanded by other engineers with ease

Education

Rutgers University

New Brunswick, New Jersey

B.S. IN COMPUTER ENGINEERING

Sept. 2014 - May 2018

- Selected courses in Database Management, Algorithm Design, Probability & Stochastic Systems, Operating Systems, Parallel and Distributed Programming