



Praveen Bachoti

Software Engineer

13330 Copper Ridge Road
Germantown, Maryland, 20874
bachotip@outlook.com
12404218266
GitHub: <https://github.com/pravified>

- 8+ years engineering/designing web and desktop applications in Java, C#, JavaScript, TypeScript, PHP
- 5+ years manual testing, writing unit tests (C#) and creating keyword/Python-based automated tests
- 4+ years in analyzing system requirements, technical documentation, and providing solutions to development teams
- Skilled in UI development with HTML5, CSS3, XAML, and experienced with Android mobile app development (Kotlin)
- Strong knowledge of SDLC, Agile (Scrum, Kanban), MVVM & MVC, AWS tools, REST & SOAP APIs, CI/CD & database design (SQL, PL/SQL)

Professional Experience

April 2019 - Present

Software Development & QA Engineer

 Octo (an IBM company) at HHS SAMHSA

- Develop interfaces, services, processes, and dashboards for applications using pre-built and coded functionality in the Appian platform, and migrate legacy .NET functionality to Appian
- Write and manage manual functional, smoke, and regression test cases for multiple .NET, Appian, and IBM BPM applications, and execute them during and outside business hours
- Automate manual test cases into data-driven and keyword-driven tests using record-and-play and JavaScript/Python scripting in SmartBear TestComplete
- Integrate tests into GitLab CI/CD pipelines using YAML and perform source control and versioning operations of automated tests using GitLab, GitBash, and Visual Studio
- Report bugs, defects, and potential enhancements using SmartBear generated report tools, Zephyr Scale, and Azure DevOps
- Collaborate with multiple software development teams using Agile (Scrum, Kanban) Methodology, performing requirements analysis and documentation in Jira and Azure DevOps
- Contribute to project analysis, risk assessment and resource procurement processes
- Provide strategic technical leadership to software development and quality assurance teams
- Collaborate with business analyst teams and project stakeholders to gather functional software requirements, technically interpret them, and demonstrate development in meetings

May 2017 - March 2019

User Experience Designer and Front-end Developer

 Pyramid Systems, Inc.

- Developed dynamic UI features in C# and XAML for a .NET WPF desktop application for USCIS following the Model-View-ViewModel (MVVM) pattern
- Created unit and automated tests (Specflow, FluentAssertions, CodedUI)
- Peer reviewed code pull requests in GitHub
- Collaborated with business analysts and product owners to gather and document system requirements (JIRA, Confluence)
- Impressed clients with high-fidelity UI prototypes and delivered leading-edge UX solutions (Quant-UX, Adobe Photoshop)
- Worked in a large Agile (Scrum, Kanban) team to deliver a high-quality enterprise product
- Ensured compliance with Section 508 standards and performed testing with auxiliary peripheral devices (DSLR camera, signature pad, fingerprint scanners)
- Documented system style requirements and created team Wiki guides (Confluence)

May 2015 - February 2017

Web Development Intern

 Road Runner Specialty Group, Inc.

- Undertook design and development of the public-facing website of a healthcare company
- Developed the front-end using JavaScript, HTML5, CSS3, Bootstrap
- Developed services to send user-submitted data to the back-end using PHP, Heroku, XAMPP

- Designed website graphics and logo using Adobe Photoshop and Illustrator
- Applied UX design principles to ensure user-friendliness of the product
- Conducted cross-browser and cross-device tests
- Provided guidance to other interns

June 2014 - August 2014

Undergraduate Research Assistant UMBC Department of Information Systems

- Collaborated with undergraduate and graduate students to design a system that captures tremor data from Parkinson's Disease patients
- Assumed responsibility for designing innovative and intuitive visualizations for captured data
- Developed a browser-based web application to access and view system data charts (D3.js library)
- Utilized Leap motion sensors to collect movement data for Parkinson's disease patients
- Conducted integration tests of the system using software and hardware components
- Contributed data visualization graphics to the published research paper

Education

September 2020 - May 2023

Master of Science in Computer Information Systems Boston University at Boston, MA

- Concentration: Web Application Development
- GPA: 3.91/4.0

August 2012 - December 2016

Bachelor of Science in Information Systems University of Maryland, Baltimore County at Baltimore, MD

- Certificate: Web Development
- GPA: 3.51/4.0
- Honors: *Cum Laude*

Key Skills

- Frameworks: Angular 2 (TypeScript, Material Design), AngularJS (JavaScript, Material Design), Node JS (Express JS, Bootstrap), VueJS (JavaScript), .NET WPF (C#, XAML, CodedUI), Android (Kotlin, Java, XML, Room/SQLite), Appian PaaS
- Back-End Languages: Java, C#, C++, JavaScript, Typescript, Python, PHP, Kotlin, Appian Language
- Front-End Languages: HTML5, CSS3, XAML, XML
- IDEs: MS Visual Studio, IntelliJ IDEA, AWS Cloud9, Visual Studio Code, Android Studio, Eclipse, Appian IDE, TestComplete IDE
- Operating Systems: Windows, MacOS, Linux
- Database Technologies: SQL, PL/SQL, MongoDB, MariaDB (Appian Cloud Database), Oracle SQL Server, Microsoft SQL Server, PostgreSQL, Android Room DB/SQLite
- Additional Services: Amazon Web Services, MS Azure DevOps Server, GitHub, GitLab CI/CD, Jenkins, SonarQube, Atlassian Suite (Jira, Confluence), SmartBear TestComplete, Zephyr Scale

Accomplishments

- Re-developed and improved the landing page user interface of an Appian Platform as a Service (PaaS) application, addressing usability issues, improving visual design, and optimizing navigation to enhance the user experience.
- Designed and proposed a new feature to enable developers to track client-reported system issues in an Appian Platform as a Service (PaaS).
- Automated the manual quality-assurance testing of multiple web applications using TestComplete and Python. Automation resulted in a 90% reduction of time spent testing prior to releases, and an 120% increase in defects discovered.
- Designed and demonstrated multiple UI mockups to clients to propose updates to biometrics input functionality and clients expressed great enthusiasm and excitement. Worked closely with developers to implement these designs.

Certifications

August 2020

Amazon Web Services Certified Cloud Practitioner

Project Highlights

- Developed a website for a graduate project that describes personal information about myself, including my career, hobbies, and likes. The website is hosted on Netlify at <https://peppy-dieffenbachia-efe51d.netlify.app/index.html>. Technologies used include HTML5, CSS3, JavaScript, JSON and VueJS. Website is both desktop and mobile friendly.
- Developed a web application for a graduate project that allows management of IT equipment. Technologies used include NodeJS, ExpressJS, MongoDB, HTML, CSS, and Bootstrap.
- Developed a web application for a graduate project that can be used in agile software development teams to perform various project management activities. Used Angular 2 in TypeScript, HTML5, CSS3, and Material design.
- Developed a mobile application for Android OS called VibeCrowd, a local musical concert browsing mobile experience. The application follows the Model-View-ViewModel (MVVM) pattern. Used Kotlin, Java and XML, and tested the code in an emulated Google Pixel 3a environment with API 30.
- Designed a normalized database for a tourism registration and management app, called P.B. Tourism. Designed the complete schema with all fields, entities, and relationships. Created the database script in PostgreSQL, and PL/SQL stored procedures for various use cases.