Simon H. Benzer

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STEM Experience

FivePoint Solutions – QA Engineer   **January 2023 – Present**
- Develop and optimize automation to ensure comprehensive smoke, regression, load, and performance testing, leveraging object-oriented programming (OOP) for reusable and modular architecture
- Build and maintain robust automation suites integrated into CI/CD workflows, achieving over 95% reduction in overall testing time per deployment
- Collaborate with the software engineering team to ensure code is consistently structured for seamless automation
- Create and deploy SQL queries to manage and configure testing environments in Microsoft SQL Server
- Documented technical specifications and user guides, improving knowledge sharing and ongoing maintenance
- Technologies: Python, Selenium, JavaScript/Typescript, Vue.js, Angular, SQL, Git, Azure, MSSMS

Cobec Consulting, Inc. – Jr. Data Scientist/Full-Stack Software Engineer   **September 2021 – January 2023**
- Ensured high customer satisfaction across multiple FAA contracts requiring Public Trust clearance
- Conducted statistical analyses, creating visualizations and reports to effectively represent key insights
- Designed and guided the clients' internal team in implementing front-end solutions for optimal UI/UX
- Developed full-stack software solutions for both clients and internal products, adhering to AGILE methodologies
- Quickly adapted to new technologies, enhancing the efficiency, productivity, and longevity of client solutions
- Created Python scripts to automate software metric, quality assurance, and other aspects of product management
- Facilitated educational sessions to introduce team members and client employees to new functionalities
- Technologies: JavaScript/Typescript, Python, Angular, Node.js, PostgreSQL, Git, Tableau, Jira

Colite Technologies – Lead Software Engineer (Contractor)   **August 2020 – April 2021**
- Developed web application (front-end, back-end, and API) utilizing Vue.js, PHP, and SQL databases to streamline company processes in a cloud environment
- Collaborated with electrical engineers to enable customers to remotely interface with machinery city-wide
- Managed team of software engineers to ensure efficient and effective goal achievement
- Collaborated directly with customers to incorporate design and functional requirements
- Managed deployment and maintenance on Amazon Web Services (AWS), enhancing scalability and reliability
- Technologies: JavaScript, Vue.Js, Node.js, SQL, Git, PHP, Amazon Web Services

University of South Carolina – Lead Research Assistant   **May 2018 – July 2018**
- Evaluate functionality of existing electrical lab equipment
- Upgrade electrical engineering to convert between several interfaces
- Test prototypes to find optimal solution to complex problems
- Present outcomes in a public setting
- Manage research team to ensure success

Johns Hopkins Hospital – Research Assistant   **January 2014 – January 2016**
- Image acquisition and processing (micron microscopy, immunofluorescent staining, measuring axonal length, etc.)
- Extensive maintenance of cell cultures
- Quantify experimental results with statistical analysis
- Present outcomes in a public setting
- Train new personnel

Education

University of South Carolina
Bachelor of Science in Computer Science, Concentration in Physics, May 2021

Georgia Institute of Technology
Masters in Computer Science, Specializing in Artificial Intelligence, January 2024 – Present

Skills

Programming Languages: Python, JavaScript, Typescript, C#, SQL, PL/pgSQL, C++, Java, R, HTML5/CSS
Development Tools: Azure, Amazon Web Services, IBM Watson Studio, Docker, Kubernetes, Tableau
Operating Systems: Linux/Unix, Windows, macOS

Projects

AI Agent – Raven's Progressive Matrices Solver
- Developed AI Agent capable of solving Raven's Progressive Matrices (an image-based IQ test)
- Utilized Computer Vision libraries to analyze and parse images
- Developed Knowledge-Based AI techniques to interpret and predict patterns and trends in problem matrices

Reddit Book Finder Bot
- Developed Reddit bot capable of parsing through user's preferred subreddits and setting reminders
  - Integrates with Wolfram Alpha's RemindMe bot to send the user a reminder after a set period of time
    - Particularly useful in threads like r/whatsthatbook where a correct answer make take several days

Software Dependency Analyzer
- Developed script that analyzes software and creates a detailed spreadsheet to aid with upgrading and identifying critical dependencies
  - Some included information: current version, latest stable version, documentation links, nested dependencies, etc.

Open-Source Contributions

Selenium – Active Contributor   **August 2024 – Present**
- Analyze and solve bugs as they arise in the project
- Serve as a liaison with the community to diagnose and assist with issues
- Develop new features in Selenium's many libraries across multiple languages (e.g. BiDi, PrintPage, etc.)
- Contribute and enhance documentation on Selenium's website (https://selenium.dev)

Publications

Osteopontin counters human immunodeficiency virus type 1–induced impairment of neurite growth through mammalian target of rapamycin and beta-integrin signaling pathways   **February 2019**