

# Simon H. Benzer

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Portfolio: <https://www.github.com/shbenzer>

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## STEM Experience

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### 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 internal 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

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## Education

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### 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

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## Skills

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**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

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## Projects

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### 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.

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## Open-Source Contributions

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### 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>)

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## Publications

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

February 2019