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JohnathonCrowder.com

# Johnathon Crowder - Software Engineer

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I am a software developer with expertise in Python and JavaScript, specializing in AI-driven solutions and full-stack web development. I have a strong background in building and integrating machine learning models, automating complex data workflows, and developing scalable, high-performance web applications. With a passion for innovation, I bridge AI and web technologies to create intelligent, efficient, and transformative digital experiences.

## Skills:

### Programming Languages:

#### Primary Languages

- **Python** - Proficient in data automation, machine learning, backend development, scripting, and API integration using frameworks such as Django, Flask, and FastAPI.
- **JavaScript** - Experienced in full-stack development, building dynamic web applications with React, Next.js, Node.js, and Express.
- **Swift** - Learning Swift for iOS development, focusing on app architecture and UI design with SwiftUI.

#### Frontend Technologies

- **HTML5 & CSS3** - Strong understanding of modern HTML and CSS, including responsive design, accessibility, and performance optimization.
- **TypeScript** - Experience using TypeScript for building scalable and maintainable front-end and back-end applications.

#### Backend & Scripting

- **SQL (PostgreSQL, MySQL, SQLite)** - Database design, query optimization, and backend data management.
- **NoSQL (MongoDB)** - Experience working with document-based databases for scalable applications.
- **Bash & Shell Scripting** - Automation, server management, and DevOps tasks.

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## Tools & Technologies:

## Mobile Development

- **Swift & SwiftUI** – Building iOS applications with Swift and SwiftUI.
- **Xcode** – Proficient in using Xcode for iOS development.
- **iOS App Architecture** – Familiar with MVC and MVVM patterns.
- **API Integration** – Fetching and handling data from RESTful APIs in mobile apps.

## Frontend Development

- **Frameworks & Libraries:** React.js, Next.js
- **Styling & Build Tools:** Tailwind CSS, Bootstrap, Custom CSS, Vite

## Backend Development

- **Node.js (Express.js), Python (Flask, FastAPI)**
- **API Development:** REST API Design, Authentication (JWT, OAuth)
- **Testing:** Unit Testing (unittest, pytest), API Testing (Postman)

## Databases & Data Management

- **SQL:** PostgreSQL, MySQL, SQLite
- **NoSQL:** MongoDB
- **ORM Tools:** SQLAlchemy

## Cloud & DevOps

- **Cloud Platforms:** AWS (Service Deployment & Management), Azure (Service Deployment & Management)
- **CI/CD Pipelines:** GitHub Actions, GitLab CI/CD
- **Containerization & Infrastructure:** Docker

## Machine Learning & Data Science

- **Data Processing & Analysis:** Pandas, NumPy, Matplotlib, Seaborn
- **AI & NLP:** OpenAI API, Hugging Face Transformers
- **CUDA Programming:** GPU acceleration using CUDA for deep learning and parallel computing.
- **Parallel Processing & Multithreading:** Experience with multithreading (Python's multiprocessing) for performance optimization.

## Version Control & Collaboration

- **Version Control:** Git (GitHub, GitLab)
- **Development Methodologies:** Agile, Scrum

## EXPERIENCE

### **DataAnnotation, Remote** – *Software Developer*

October 2023 – PRESENT

- Train AI chatbots to generate accurate and efficient code solutions by reviewing, evaluating, and refining AI-generated responses.
- Provide expert feedback on Python, JavaScript, and other programming languages, ensuring AI models align with real-world coding best practices.
- Develop coding challenges, test cases, and prompts to improve AI-generated solutions for various programming problems.
- Optimize AI-assisted coding performance by identifying inconsistencies, debugging model-generated code, and suggesting improvements.
- Work with machine learning teams to refine AI training data, improving model accuracy and reducing bias in generated responses.

## EDUCATION

### **Mount Vernon Township High School**

**High School Diploma | August 2014 – March 2018 | Mount Vernon, IL**

- Focused on technical education, specializing in electrical engineering, robotics, and software development.
- Electrical Engineering (3 years): Studied principles of electricity, circuit design, and hands-on circuit building.
- Robotics (1 year): Built and programmed robots using C++ for automation and control.
- Software Development (2 years): Gained experience in Python and JavaScript, working on real-world programming projects.
- FIRST Robotics Team (4 years): Served as a lead programmer, contributing to robot development using:
  - LabVIEW (2 years): Engineered control systems and automation logic.
  - Python (2 years): Developed robot functionality, implemented algorithms, and integrated hardware.
  - Version Control (Git): Managed and collaborated on code using version control systems.

## Certifications:

### **Google IT Automation with Python / Professional Certificate**

August 2023, Springfield MO

Verify this certificate at: <https://coursera.org/verify/professional-cert/YDGBZR23HQAM>



6 Courses

Crash Course on Python  
Using Python to Interact  
with the Operating System  
Introduction to Git and  
GitHub  
Troubleshooting and  
Debugging Techniques  
Configuration Management  
and the Cloud  
Automating Real-World  
Tasks with Python



Aug 22, 2023

## Johnathon Crowder

has successfully completed the online, non-credit Professional Certificate

# Google IT Automation with Python

This six-course certificate, developed by Google, is designed to provide IT professionals with in-demand skills -- including Python, Git, and IT automation -- that can help them advance their careers. The hands-on curriculum is designed to teach learners how to write code in Python, with a special focus on how this applies to automating tasks in the world of IT support and systems administration. Those who received this certificate passed all graded assessments with a score of 80% of above. They should have a strong foundation in how to use Git and GitHub, troubleshoot and debug complex problems, and apply automation at scale by using configuration management and the Cloud in order to prepare them for more advanced IT Support Specialist or Junior Systems Administrator positions.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
<https://coursera.org/verify/professional-cer/ydgbzr23hoam>