

Kingston Mcguire

Entry-Level Python Developer

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SUMMARY

Recent **Computer Science** graduate with hands-on experience building **web-centric solutions** through supervised labs, collaborative coding challenges, and a university capstone. Delivers practical Python and Java applications with Flask, REST-style endpoints, SQL, SQLite, Git, GitHub, pytest, validation, and clear **technical documentation**. Capstone work turned requirements into a searchable campus resource service, supported by repeatable tests and peer feedback. Strong interest in **client-facing junior IT opportunities**, with steady focus on technical skill development, interview preparation, portfolio growth, and reliable delivery. Brings patience to unfamiliar problems, communicates technical decisions clearly, and contributes well within guided team environments.

EDUCATION

Bachelor's Degree in Computer Science

University of Wisconsin–Madison 🎓 GPA: 3.7 📅 2026 📍 Madison, WI

Coursework: Python programming, Java programming, web application development, database systems, software testing

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL
- **Web Frameworks:** Flask, Jinja, Werkzeug
- **Web Technologies:** HTML, CSS, responsive design
- **API Development:** REST, JSON, HTTP
- **Databases:** SQLite, SQL queries, CRUD
- **Testing Tools:** pytest, test fixtures, unit testing
- **Source Control:** Git, GitHub, pull requests
- **Software Practices:** object-oriented programming, modularity, exception handling
- **Debugging Tools:** logging, debugger breakpoints, reproduction steps
- **Development Methods:** user stories, Agile fundamentals, code reviews
- **Documentation:** setup instructions, lab notes, technical documentation

SKILLS

- Python
- SQL
- Git
- Debugging
- Java
- SQLite
- GitHub
- Unit testing
- Flask
- HTML
- pytest
- Data validation
- REST APIs
- CSS
- OOP

EXPERIENCE

Python Developer, Capstone Project

University Web Application Project 📅 September 2025 - May 2026 📍 Madison, WI

Supported a four-person university delivery team building a web-centric campus resource service with Python, Java integration, Flask, SQL, Git, and pytest. Translated a practical user need into application features, test evidence, and a documented demonstration suitable for faculty review and future portfolio use.

- Built a Flask and **Java**-supported service that let students search, filter, and save campus resource records through a **responsive web interface**.
- Created **REST**-style routes, validation logic, and **SQL** queries for a 4,800-record sample dataset, documenting data-handling choices for faculty review.
- Added **pytest** coverage for authentication, malformed requests, search filters, and record updates, catching defects before demonstrations.
- Used **Git** feature branches and pull requests across a four-person team, keeping implementation history organized and reviewable.
- Mapped navigation issues from eight peer testers into clearer labels, error messages, and page flows, improving usability during final review.
- Presented application behavior, testing evidence, and Java integration decisions to a faculty panel, earning approval for final submission and portfolio publication.

Junior Python Developer, Supervised Lab

Student Python Development Lab 📅 January 2025 - August 2025 📍 Madison, WI

Completed supervised software development work focused on Python utilities, Flask demonstrations, SQLite workflows, Java fundamentals, and repeatable testing. Built confidence through code reviews, instructor fixtures, debugger-led investigation, and clear lab documentation that connected implementation choices with mock client needs.

- Developed **Python** utilities for file processing, API response parsing, and automated report generation within a supervised software development lab.
- Implemented **object-oriented modules** with clear interfaces and **exception handling**, then compared outputs against instructor-provided test fixtures.
- Connected a **Flask** demonstration application with **SQLite** to present create, read, update, and delete workflows for a mock request-tracking process.
- Investigated failing test cases with logging, debugger breakpoints, and isolated reproduction steps, recording fixes in lab notes.
- Practiced Java through collection processing, inheritance exercises, and a command-line scheduling prototype evaluated against 30 predefined scenarios.
- Presented weekly **code reviews** and applied peer feedback on naming, modularity, documentation, and maintainability.

Python Developer, Hackathon Team

Campus Technology Hackathon Project 📅 October 2024 - November 2024 📍 Columbus, OH

- Contributed within a three-person hackathon team that shaped a short problem brief into a usable Python web prototype. Balanced scope, implementation speed, testing, and setup clarity while building a practical reservation workflow for student organizations under supervised event conditions.
- Created a **Python** web prototype that helped student organizations locate shared equipment and submit reservation requests during a 48-hour hackathon.
 - Converted a one-page brief into **user stories**, a lightweight data model, and prioritized implementation tasks for a three-person team.
 - Used Flask, **HTML**, **CSS**, and SQLite for searchable inventory, request status, and basic administrative review features.
 - Added input validation and defensive error handling after testing 22 reservation scenarios with conflicting dates and incomplete records.
 - Used Git for source control and prepared setup instructions so judges could run the application in a clean local environment.
 - Demonstrated the prototype to faculty and student judges, receiving a usability commendation for clear workflow design and practical scope.

PROJECTS

Campus Resource Search Service 📅 2026

Built a distinct portfolio-ready web service concept for searchable campus information. Python, Flask, Java integration, SQL, pytest, and Git supported a clear path from requirements through testing and presentation.

Request Workflow Utility 📅 2025

Created a small Python and SQLite workflow for tracking mock service requests. Object-oriented modules, validation, logging, and repeatable fixtures kept behavior easy to inspect and explain.

LEADERSHIP & AWARDS

- Dean's List, University of Wisconsin–Madison, Fall 2025
- Capstone Project Excellence Recognition, Department of Computer Sciences, 2026
- Hackathon Usability Commendation, Campus Technology Hackathon, 2024

CERTIFICATIONS

- Python for Everybody Specialization 📅 2025
- Java Programming and Software Engineering Fundamentals 📅 2025
- Git and GitHub Foundations 📅 2026

PROFESSIONAL AFFILIATIONS

- Peer Code Review Facilitator, Computer Sciences Student Association, 2025-2026
- Volunteer Workshop Mentor, Python Study Group, 2025
- Hackathon Planning Committee Member, Campus Technology Hackathon, 2024

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST