



# Kingston Mcguire

## Entry-Level Python Developer

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### STRENGTHS

- 💡 **Practical problem solving**  
Turned a short problem brief into user stories, a working data model, and focused delivery steps; peers valued clear next actions.
- ✅ **Careful testing mindset**  
Built repeatable pytest cases for malformed requests and updates; finding issues before demos became a habit that supported team confidence.
- 👥 **Collaborative coding**  
Used branches, pull requests, and weekly reviews on team work; feedback shaped cleaner modules and a repository others could follow.
- 🗣️ **Clear technical communication**  
Explained Java integration, data choices, and test evidence to faculty and peers; difficult questions became useful design conversations.
- 🎓 **Steady learning drive**  
Moved from guided lab exercises into full web prototypes with Python and Flask; each unfamiliar tool became a chance to contribute sooner.

### SKILLS

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

### LANGUAGES

English Native  
Spanish Intermediate

### 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

### 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.

MY CAREER



- Python Developer, Capstone Project at University Web Application Project (8 Months)
- Junior Python Developer, Supervised Lab at Student Python Development Lab (7 Months)
- Python Developer, Hackathon Team at Campus Technology Hackathon Project (1 Months)

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

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- 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

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST