Secure Software Architect Internship Opportunity

The Westchester County Department of Information Technology is seeking qualified college-level interns to assist in developing a secure implementation for the new Westchestergov.com redesign. The intern will be participating in development, implementation and testing of Westchester County's public facing websites.

Under the supervision and direction of experienced staff, the Secure Software Architect Intern will be developing, testing and validating all faucets of the public facing website including server/middleware configurations (Windows/IIS and Linux/Apache) and underlying web applications and databases. They will be part of a team that develops the backend systems of a new public facing website development. This will involve secure software development. The team will also perform security assessment of the newly developed systems to uncover vulnerable areas of the new development and provide patching and controls for these vulnerabilities before the sites become live.

What you'll do:

- Develop backend applications in Python, C#/C++, SQL, PHP, or Java.

- Static and dynamic source code review for control flow and security flaws.

- Conduct penetration testing of system, application, and traditional web.

- Implement controls and software patches based on results of testing.

- Harden servers, middleware, databases, content management systems and overall system configurations.

- Continue maintenance patching and monitoring of system during SDLC.

Required Knowledge, Skills, Abilities and Attributes:

Demonstrates broad subject matter knowledge of web, network, and system security. Experience with Windows and Linux servers. Experience with Apache and IIS servers. Development experience in Python, C#/C++, SQL, PHP, or Java. Understanding of common software application vulnerabilities (OWASP Top 10).

Must be working toward a College Undergraduate or Graduate Degree:

Students of Cyber Security, Information Technology, or Computer Science or related field, which must have included at least 8 credits in application security related course work.

Schedule & Compensation:
- **Hours per week:** Min. of 15-20 hours per week, Monday to Friday, 9 am - 5 pm
- **Duration:** One-year commitment to the project is preferred.
- **Compensation:** For-credit or hourly wage

How to Apply:

E-mail your cover letter and resume to:

Scott Fernqvist, Program Coordinator
Westchester County Department of Information Technology
sef1@westchestergov.com

Additional Information:
Westchester County, with a population nearing one million residents, is the 500 square mile region just north of New York City. Westchester County's Department of Information Technology is nationally recognized for its innovative use of existing and emerging technologies in government operations and its delivery of services to the public. Westchester County routinely ranks as one of the Top Ten Digital Counties in the United States and has received many awards for its website, www.westchestergov.com, which receives around one million hits per month.