
Full-Stack Cloud Engineering Intern | AI & Healthcare Platforms

About the Role:

Velatura is seeking a Full-Stack Cloud Engineering Intern to join our platform engineering team. This six-month internship provides hands-on experience building and supporting cloud-based applications, AI-enabled solutions and healthcare technology platforms.

As an intern, you will work alongside experienced engineers and contribute to real products and production systems. Velatura's AI environment includes multi-LLM systems and more than 200 AI agents deployed across our customer base, providing an opportunity to gain practical experience with AI at product scale.

You will gain experience across the software development lifecycle, including frontend and backend development, cloud infrastructure, artificial intelligence, automated testing and deployment. This role is designed for a student who wants to strengthen their software engineering skills while gaining practical experience with modern cloud and AI technologies in a highly regulated environment.

Responsibilities

Working with guidance and mentorship from senior engineers, you will:

- Develop and enhance features across Velatura's cloud-based products and platforms
- Contribute to frontend development using React and TypeScript
- Support backend development and API integrations using Python and AWS services
- Assist with the development and integration of AI-enabled features, agents and workflows
- Write and maintain unit, integration and end-to-end tests
- Troubleshoot technical issues and help improve application performance, reliability and usability
- Participate in code reviews, technical discussions and agile development processes
- Create and maintain clear technical documentation
- Collaborate with engineers and other team members to translate requirements into working software

Depending on project needs, you may contribute to products including Velatura IntelliBot™, Consent Manager Plus, Care Plan Manager Plus, Medical Information Gateway, Velatura ITP and the Meld FHIR Sandbox.

Qualifications

Required

- Currently pursuing a bachelor's or master's degree in computer science, software engineering or a related field
- Familiarity with at least one programming language; Python, JavaScript or TypeScript experience is preferred
- Basic understanding of web development concepts, including HTTP, REST APIs and HTML/CSS
- Strong analytical and problem-solving skills
- Ability and willingness to learn new technologies and apply feedback
- Strong written and verbal communication skills
- Interest in cloud engineering, artificial intelligence, healthcare technology or related fields

Preferred

Experience in any of the following areas is helpful but not required:

- React, TypeScript or modern JavaScript frameworks
- Python application development
- AWS or other cloud platforms
- Large language models, AI agents or AI-assisted development tools
- Git and collaborative software development workflows
- Automated software testing
- FHIR or other healthcare interoperability standards

Candidates are not expected to have experience with every technology listed. We are looking for strong technical fundamentals, curiosity and a willingness to learn.

What You'll Gain

During the internship, you will have opportunities to gain practical experience with:

- Full-stack application development using React, TypeScript and Python
- AWS cloud and serverless technologies, including Lambda, Step Functions, API Gateway and DynamoDB
- Large language models, AI agents, prompt engineering and responsible AI development
- Amazon Bedrock and other technologies used to integrate AI into production applications
- Security and identity technologies, including IAM, encryption, role-based access control and OAuth/OIDC
- Healthcare interoperability, FHIR standards and secure health data exchange
- Automated testing, CI/CD pipelines, load testing and security scanning
- Agile software development, code review and technical documentation
- Enterprise platforms and development tools, including Jira, Confluence and ServiceNow

Internship Details

- **Duration:** 6 months (flexible based on academic schedule)
- **Format:** Remote, with access to cloud development environments
- **Team:** Embedded within our AI-first platform engineering team working on production systems across multiple states

About Velatura

Velatura is an AI and interoperability platform provider helping organizations securely connect, exchange and make greater use of data.

Born from more than a decade of experience building and operating health information exchange infrastructure, Velatura has evolved beyond the traditional health information exchange model. Today, we bring together proven interoperability capabilities, cloud-based platforms and AI to help organizations put trusted data to work across healthcare, government, public health and other complex environments.

Our technology includes production AI systems, an ecosystem of more than 200 AI agents, and platforms designed to connect information, support intelligent workflows and solve real-world challenges at scale.

Velatura is committed to building technology that creates meaningful, long-term impact. We believe innovation should strengthen trust, expand access to information and, above all, serve people.