

SAMANTHA LAVRINC

Pittsburgh, PA • 412-328-1006 • sLavrinc@gmail.com
www.linkedin.com/in/slavrinc

SUMMARY

Software Engineer with 3+ years of experience developing backend and user-facing solutions in healthcare technology. Skilled in Java, SQL, and cloud-based CI/CD, with complementary strengths in UX/UI design and front-end development. Experienced in transforming Figma mockups into responsive web interfaces and applying principles of composition, color, and visual hierarchy from a commercial art background to create intuitive, accessible user experiences.

WORK EXPERIENCE

Software Engineer - NLP & Clinical Informatics, Realize Intelligence Oct 2022 - Present

- Developed and maintained multi-layer NLP pipelines leveraging Apache cTAKES, Java, and PostgreSQL to convert unstructured clinical text into structured, FHIR-compliant data.
- Collaborated with design and product teams to refine front-end workflows, using Figma prototypes to inform UI iterations and improve data visualization and usability.
- Extended regex-driven negation and terminology systems for improved detection of clinically relevant concepts.
- Implemented robust JUnit testing and automated validation to ensure consistent, scalable processing across thousands of patient records.
- Partnered with clinical stakeholders to translate oncology trial protocols into rule-based logic and technical requirements.
- Maintained and refined clinical logic following senior team departures, ensuring continuity and reliability in data processing.

Software Engineer Intern - UPMC Information Services Jun 2021 - Aug 2021

- Redesigned Azure CI/CD pipelines to support separate production and review workflows, converting Classic pipelines to YAML for maintainability and alignment with Scrum release processes.
- Gained practical experience with Azure DevOps, C#, YAML, and healthcare security standards (HIPAA).

Independent Illustrator & Graphic Designer - Freelance 2011 - 2015

- Produced commissioned digital and traditional artwork for individual and commercial clients.
- Designed logos, brand assets, and visual materials emphasizing clarity, balance, and composition.
- Created detailed Statements of Work (SOWs) outlining project scope, deliverables, and timelines.
- Applied principles of layout, color theory, and typography using Adobe Illustrator and Photoshop to deliver professional, client-ready designs.

EDUCATION

Sep 2020 - Aug 2022

Bachelor of Science in Computer Science

University of Pittsburgh - School of Computing and Information

Associate of Science in Computer Information Systems

Aug 2019 - Aug 2020

Community College of Allegheny County

Advanced Certificate - Commercial Art

Aug 2003 - Aug 2006

A.W. Beattie Career Center | 3-year program in design principles, composition, and digital illustration

TECHNICAL SKILLS

- Languages & Frameworks: Java (proficient), Python, C#, C++, HTML, CSS, JavaScript
- Databases & ETL: PostgreSQL, SQL, ETL/Data Integration
- Web & Design Tools: Figma, Adobe Illustrator, Photoshop, Responsive Web Design, UX Wireframing, Prototyping, Visual Design Principles
- NLP & Healthcare: Apache cTAKES, Regex, FHIR/HL7, SNOMED, LOINC, RxNorm, ICD-O/ICD-10
- Cloud & CI/CD: AWS, Docker, Azure DevOps, YAML Pipelines, JUnit, Groovy, Cucumber
- Collaboration: Jira, Confluence, Agile/Scrum