PROFILE

Highly skilled Software Engineer with 5+ years of experience building quality software applications at scale. Strong communicator and problem-solver with a track record of delivering robust and extensible infrastructure. Experienced in working with complex federal, state, and agency regulations in financial and healthcare sectors.

CONTACT

PHONE:
(732)-682-0887

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SKILLS

Languages:
Python, Java, C, C#, HTML/CSS

Database:
OracleDB, PostgreSQL, Elasticsearch

AI/Computer Vision:
fastai, opencv, Tesseract, Cloud vision API integration (Google, AWS, Azure), Jupyter, numpy, pandas, MATLAB

Domain-specific:
DICOM, dcmtk, pydicom

Cloud/Infrastructure:
Docker, AWS, Google Cloud Compute

HOBBIES

Visual art (painting, drawing, ceramics), recording music (guitar, piano, singing), hiking, nature, travel

FIRAS SATTAR

SOFTWARE ENGINEER

EDUCATION

Rutgers University – New Brunswick, School of Arts and Sciences
Bachelor of Science in Computer Science – Mathematics Minor
Sept. 2012 – May 2016

WORK EXPERIENCE

Fin3 Technologies Inc., Software Engineer
March 2022 – July 2022
Fin3 is a startup focused on connecting banking cores with blockchains. Their Blockchain Interface System (BIS) allows customers to seamlessly convert traditional currency to tokenized stablecoin for transacting on the blockchain.

- Contributed to backend integration of core BIS software with blockchains like Stellar and Provenance, collaborating with third-party development teams to meet stakeholder requirements.
- Used external APIs to develop a robust framework for custodial wallet management with secure key generation and rotation.
- Automated publishing of code packages and other CI/CD using GitHub Actions scripts.

IBIS Inc. – EICON, Software Engineer
Nov 2017 – March 2022
IBIS specializes in medical imaging solutions, primarily in the regulated Clinical Research space. Using a robust clinical data management platform, IBIS provides high-end data management solutions to the life sciences/healthcare communities.

- Developed an AI and computer vision-based image anonymizer to automate redaction of sensitive information from medical imaging data, addressing privacy concerns for data used in research.
- Conducted research and development on DICOM de-identification, resulting in securing a $400,000 grant. **(SBIR 411 and 427)**
- Created validated, HIPAA-compliant Python Docker service for secure transmission of medical imaging data.
- Developed a configurable DICOM metadata extraction tool utilizing Elasticsearch to meet sub-second performance requirements for enterprise Pharma customers
- Participated in formal validation of software platform in the form of system testing leading to a successful audit **(21CFR Part 11)**

IDT Corporation (Products and Services Platform), Software Engineer
Jul. 2016 – Nov 2017
The Products and Services Platform (PSP) is responsible for 47% of IDT revenue. As a member of the development team supporting PSP:

- Created configurable call simulators for testing flagship calling app Boss Revolution Mobile (BR Mobile).
- Developed a Java application to assess customer call, data, and SMS eligibility based on standing and initiate account status changes
- Built a front-end account management application (WebAdmin) using React.js.

IDT Corporation, Software Engineering Intern
Summer 2014, Summer 2015

- Developed an Oracle database-querying application in Python for monitoring telecom network traffic and generating alerts based on traffic conditions.
- Wrote Python scripts to search Call Detail Records on Unix-based systems using regex-matching