

# Israel Agyeman-Prempeh

## Senior Software Engineer

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Versatile full-stack developer specialising in front-end technologies with added skill in UI/UX design. I have over 8 years of experience in FinTech, architecting UIs that handle extensive, high-frequency data. Most of my work is in JavaScript, Typescript, React for the front-end and Python for the backend. A curious learner willing to take on new challenges, and work within high-functioning teams while bringing on my garnered expertise and delivering high-performance products to fulfil business needs

## Professional Experience

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2023-07 - present	<div><b>Associate Director - Senior Software Engineer Core UI</b></div> <div><i>RBC Capital Markets, London</i></div> <ul style="list-style-type: none"><li>• Global UI Lead driving the development and maintenance of RBC Capital Markets' core UI libraries, including MUI-based components, an AG Grid extension, and an Apache ECharts-based charting library, all widely adopted across the organization.</li><li>• Implemented high-quality CLI tools for building, testing, templating, and module federation, leveraging technologies like Rspack, Nx custom executors, and SWC to abstract complex configurations and accelerate development.</li><li>• Overhauled dependency management using Nx monorepos, streamlining CI/CD pipelines with custom scripts, Docker and integrating firm-wide DevOps strategies via GitHub Actions and Jenkins for semantic versioning compliance.</li><li>• Built a Dev portal to reduce the barrier of entry to from idea to prototype with developer experience at the fore-front</li><li>• Architected a roadmap and Prioritized tasks to modernize UI libraries with cutting-edge frontend technologies, including module-federation and VSCode Extensions</li></ul>
2022-07 - 2023-07	<div><b>Vice President - Rates Flow Technology</b></div> <div><i>Bank of America, London</i></div> <ul style="list-style-type: none"><li>• Designed, architected, and implemented performant UI handling thousands of live-ticking data used by traders and middle-office, using efficient paradigms in JavaScript; web workers, WebSockets and Typescript</li><li>• UI Lead on unified trading and trade-blotter application used by sales and traders. Work included RFQ terminals with live risk and market data</li><li>• Spearheaded UI reconstruction of legacy python application, leading a team of engineers</li><li>• Handled releases SDLC and CI/CD pipelines as an additional role while managing releases and interfacing with senior leadership on state of production</li></ul>
2016-07 - 2022-02	<div><b>Assistant Vice President - Rates Flow Technology</b></div> <div><i>Bank of America, London</i></div> <ul style="list-style-type: none"><li>• Led the transformation of a legacy supervisory tool by rebuilding its UI from Python to a modern, ReactJS-</li></ul>

- Designed and developed intuitive UI/UX wireframes and implemented robust RESTful and WebSocket APIs using Tornado. The revamped application's success drove its global adoption, consolidating all supervisory tools into a unified platform and establishing it as the bank's primary supervisory solution.

2015-06 - 2015-08

### Summer Technology Intern

*Bank of America Merrill Lynch, London*

- Designed UI concept and implemented a UI framework with pre-built components using Jade and AngularJS to allow backend developers to build quick and easy UIs with minimal code.

## Education

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2012-09 - 2016-06

### Computer Science 3.58/4.0, B.Sc. (Cum Laude)

*Ashesi University College, Accra-Ghana*

## Skills

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Javascript:Typescript, React, Openfin/Electron, Webworkers, RsPack, cli tools

DevOps: Github Actions, Jenkins, Artifactory, Nx Monorepos, Docker

UI/UX Design and Wireframing:AxureRP, Photoshop, Illustrator, Blender3D

## Projects

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2016-01 - 2016-04

### Capstone Project

*Smart Home Surveillance and Intelligent Traffic Light System*

Built home surveillance and smart traffic light system which employed computer vision with Histogram-of-Oriented-Gradients for human detection

## Volunteering

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*Africa and Campus Recruitment Program - Bank of America*

Mentored and helped coordinate campus recruitment efforts within Bank of America technology with a focus on African and London university candidates. This program was overseen by the CTO.