CHARLES SSEKITTO

Fairfield, Iowa 52557 • +1-641-233-9971 • charlessekito.work@gmail.com
https://www.linkedin.com/in/ssekitto-charles-842a4315b/

FULL STACK DEVELOPER

React Certified Full Stack Developer with 5 years of professional experience in the Financial, Education, and E-commerce sectors, developing enterprise applications for Desktop, Web, and Mobile platforms. Expertise lies in creating robust and scalable analytic tools, mobile applications, and data warehousing applications for data processing and analysis. Experienced in real-time communication using Socket.io and Web Sockets; well-versed in containerization and cloud technologies, with practical knowledge of Docker, AWS, and Jenkins for CI/CD. Well-versed in Vue, React, React Native, Svelte, Chrome APIs, TypeScript/JavaScript (Node, Remix js), Python, Flask, AWS S3, AWS SNS, Docker.

Object Oriented Programming • SOLID • Project Management • CI/CD • AWS CLOUD • Containerization
Database Design • Object Oriented Analysis • Cloud Computing • Linux

Languages: JavaScript, Python3, Java, Shell, PHP
Web: Typescript, React/ReactJS, Vue/Vue.js, Electron, HTML5, CSS3, SASS, Chrome Extensions, Svelte
Web Services: Ajax, REST, GRAPHQL, JSON, XML
Web/App Servers: Apache, Nginx, Node/Node.js
Frameworks: Flask, Spring, Spring Boot, Express Node, Laravel, Fast API
Databases: MS SQL, PostgreSQL, MySQL, MongoDB, SQL
Design Patterns: Singleton, Decorator, Facade,
SDLC: Agile, Scrum
Tools: Vim, Bash, ZSH, shell, Figma, Code, IntelliJ, Docker, Jenkins, Pandas, Scrapy, Electron, Canva, Draw.io.
Platforms: Windows, Linux, AWS infrastructure, AWS SNS, AWS S3, Heroku, Digital Ocean.
Big Data: Hadoop, Spark, Spark SQL, Scala.

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a* **Master's Degree in Computer Science** *(Available for full-time, W-2 employment).*

KORAL APS, Copenhagen, Denmark • 02/2023 – 06/2023
E-commerce Platform for discounted products.

Full stack developer (Remote)
Working on the core front-end project, as well as the chrome extension that consumes data generated from the frontend.

- Designed the user-centric interfaces for the Chrome extension, employing design tools like Figma and Canva, the designs were pivotal in delivering an enriched shopping experience leading to customer engagement and satisfaction.
- Developed an innovative Chrome extension leveraging the Chrome API, Svelte.js, TypeScript, and CSS3; designed to enhance user experience, successfully amplified user engagement, and demonstrated significant market impact.
- Enhanced the codebase by engineering a suite of reusable ReactJS components, including banners, loaders, buttons, and image carousels, utilizing Sass, Remix.js, and TypeScript, resulting in streamlined development workflows, boosting team productivity by 30%.
- Contributed to backend components using PHP Laravel, which were integral to processing user transactions via the Chrome extension.
- Established the foundational integration and unit testing framework with Mocha and Chai, and authored comprehensive initial tests for the components, enhancing code reliability and reducing debugging time, resulting in a 50% increase in team productivity.

Technologies Used: *Typescript, React, Svelte, CSS3, Sass, PHP, Laravel, Figma, Canva, Remix JS, Mocha, Chai, Chrome Web Extensions API, Docker*

PESAMONI LTD, Kampala, Uganda • 04/2022 – 10/2022
Financial Company processing payments.

Full Stack Developer (Contract)
Built frontend client to consume backend data provided through internal APIs.
- Revitalized user interfaces of the Learning Management System (LMS) by applying proper design principles and code enhancements using tools such as Figma, and Canva, and Google Analytics which were instrumental in elevating user experience by 20%.
- Led the refactoring of the legacy code from outdated JavaScript versions to ES6, streamlining system performance by 40% and significantly reducing resource consumption.
- Automated routine tasks such as document generation and testing through Python, Shell, and Node.js scripts, boosting team productivity and enhancing operational efficiency.
- Set up automated testing frameworks and CI/CD pipelines utilizing tools Jenkins, test Docker Containers, and Bitbucket Pipelines, accelerating deployment processes and negating the need for manual FTP deployments, resulting in a 35% increase in software release velocity.

Technologies Used: *JavaScript, Vue.js, Node.js, Vue PDF, TypeScript, Figma, Canva, Draw.io, Nightwatch.js, PostgreSQL, AWS, S3*

COBBLESTONE ENERGY, London, United Kingdom • 09/2019 – 09/2021
London-based Energy Trading firm.

Full Stack Developer (Contract, Remote)
Worked on both the backend and frontend of the internal projects.
- Architected and engineered a Desktop Application, crafting user interfaces with Figma, Canva, and Draw.io, and developing comprehensive UML and Entity Relationship Diagrams to streamline Desktop-backend interactions.
- Orchestrated the architecture of backend APIs for a Desktop application, leveraging Python with Fast API, PostgreSQL, Node.js, and Express to ensure seamless data transactions.
- Led the development of real-time data analytics using Electron.js, Socket.io, Web Sockets, Chart.js, Plotly.js, and Python, enhancing data analysis efficiency by 35% and bolstering trader decision-making, thereby boosting profits by 20%.
- Developed data integration applications adhering to the ETL paradigm utilizing Bonobo, Pandas, NumPy, and SciPy to analyze extensive datasets stored in the data warehouse, all orchestrated with Python.
- Engineered sophisticated web scrapers, spiders, and scanners with Scrapy, Beautiful Soup, and Python, effectively capturing historical data for storage in a PostgreSQL data warehouse.
- Implemented automated testing frameworks and CI/CD pipelines using Jenkins and Bitbucket Pipelines, streamlining deployment and build automation (AWS software deployment), culminating in a 30% uptick in software release velocity.
- Guided a dedicated team of three developers cultivating a synergistic workspace characterized by thorough code reviews, thoughtful task assignments, and interactive pair programming: instrumental in elevating the caliber of our deliverables and optimizing our pull request workflow for maximum efficiency.

Technologies Used: *JavaScript, Typescript, Python3, Bonobo, Fast API, Pandas, NumPy, Scrapy, SQL, PostgreSQL, Electron, Node.js, Express.js, Socket.io, Chart.js, Plotly.js, AWS SNS, AWS S3, Draw.io, Docker*

ANDELA, Kampala, Uganda • 09/2018 – 09/2019
Andela is a company that develops a recruiting marketplace connecting organizations with technologists.

Full Stack Developer
Worked on both frontend and backend of the company internal systems.
- Orchestrated the implementation of comprehensive automated unit and integration testing frameworks, along with CI/CD pipelines, for a resource allocation project, leveraging GitHub webhooks, Jenkins, Coveralls, Pytest, and Coverage; significantly bolstered the project's code quality and deployment efficiency.
- Prioritized tasks for the development sprints as a scrum master, strategic task delegation, and engaging in pair programming sessions, which ensured high-quality contributions and streamlined the team's overall development process.
- Developed a library of reusable React components, including Web Forms, Pagination, and Modals, which became a staple for the development team, enhancing code consistency and accelerating project timelines.
- Engineered Python and Shell scripts for the strategic scheduling and execution of operations, capturing application usage during peak and off-peak hours, these insights provided the ability to pinpoint critical areas of the application, focusing team efforts and enhancing efficiency by 15%.

Technologies Used: *JavaScript, Typescript, Python3, Flask, Flask SQL Alchemy, Pytest, SQL, PostgreSQL, Electron, Excel, Node.js, Express, Mongo DB, Sass, Css3 React JS, Jenkins, GitHub WebHooks, Jenkins, Coveralls, Docker*

RELEVANT PROJECTS

Maharashi International University (2024) Big Data Analysis on Industries versus Years Of Experience
Data analysis on how long job applicants stay in a given industry.
Utilized Java, Scala, Hadoop, Spark, Spark SQL

Pop up blocker 2021: A simple script that blocks cookie pop ups and sign in/up forms that are mandatory on certain websites.

Ecommerce Project 2023: A full stack web Application e-commerce application for buying and selling products.
Utilized React, Remix JS, Node JS, Express JS, Mongo DB CSS3, JavaScript (ES6)

EDUCATION

Master of Science in Computer Science.
(In progress via distance education; expected completion 06/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: *Database Management Systems, Big Data, Algorithms, Enterprise Architecture*

Bachelors in Computer Science in Computer Science
Makerere, Kampala, Uganda (06/2017)

CERTIFICATIONS

Udacity React Nano Degree (https://confirm.udacity.com/AQ2LSAJR)