IAN MADEGE

SENIOR SOFTWARE ENGINEER

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CAREER SUMMARY

I'm a Senior Full stack Python engineer with 9 years of professional software engineering experience using Python and Javascript (Node.js, Next.js, React, Angular, Django and Fast API). Currently, I'm part of an agile development team where I'm in charge of developing highly scalable applications using Python, Node.js, Angular & AWS in multiple environments including microservices and monolithic.

PROFESSIONAL EXPERIENCE

BUUPASS INC – NAIROBI, KENYA

Senior Software Developer– Full time   **06/2023 – Present**

- Leading Kenyan travel platform for B2B sales used by 100+ companies such as Safaricom, Microsoft Kenya and Java Kenya.
- Working in a Scrum team of 5+, building the microservice architecture and the automation of the inventory module using Python, Django, Flask, Node.js, React.js, Docker, Kubernetes, and AWS.
- Built CI/CD pipelines using Github actions, setting up Docker and Kubernetes config for our production and staging environments.
- Developed the product taking it from design to production and writing unit tests using Python Unit Test and PyTest with code coverage of 90%.
- Integrated a Third-party API from Airlines, running as a background service that updates Airline inventory options , using celery as a broker with async Python functions.
- Technologies used: Python, Django, FastAPI, PostgreSQL, Javascript, AWS RDS, AWS SNS, AWS SQS, AWS S3, AWS Cognito, AWS Lambda, Microservices, ELK Stack, Kubernetes, Pytest, React.js.

ANDELA – NEWYORK, USA (REMOTE)

Senior Software Developer– Full time   **08/2018 – 2023**

- Worked on project called Firmatek, a Texas-based data solutions for 3D mapping used majorly by governments and clients in the mining industry.
- Led a scrum team of 9 people, and built a new data processing and visualization microservice using Python, Fast API, and Nodejs, which scaled our data analytics services by 200%.
- Improved our API access speed and reduced Infrastructure cost significantly using Python, JavaScript, Node.js, React.js, Kubernetes, and AWS.
- Customized and Integrated multiple Python-based GIS tools in our platform, which improved our data processing analysis time and analysis time of civil engineers by 60%.
- Built CI/CD pipelines integrated with Unit and Behavioral tests, which reduced the deployment time by 45% and the bugs reporting by 90%.
- **Technologies used:** Python, Fast API, Node.js, AWS, Postgresql, ReactJs, Apache Kafka, Microservices , Docker, Kubernetes.

ANDELA – NEWYORK, USA (REMOTE)

Senior Software Developer– Full time   **08/2018 – 03/2023**

- Worked on a project called The Zebra, a Texas-based insurance platform based on MLE and Data Analysis to deal with 100k+ clients.
- Was part of a Scrum team of 6, developed the microservice architecture and optimized the codebase using Python, Django, Kubernetes, and AWS.
- Reduced manual effort by 80% by automating the complete platform and integrating 10+ Rest APIs. Optimized the pricing analysis microservice which saved $100k in revenue through automated web scraping.
- Worked on an event logging script to Datadog, that was sharing insights about customer journeys using our products, this increased the customer conversion rate by at least 30%.
- Collaborated code using version control system Git.
- **Technologies used:** Python, Django, SQLAlchemy, Node.js, AWS, Datadog , Apache Kafka, Postgres, Microservices, AWS Lambda, Docker, Kubernetes.

APPSOLUTE MOBILITY – ERFURT, GERMANY

Software Engineer – Freelance   **08/2014 – 06/2020**

- Worked on Appsolute Mobile project a German based reporting tool that enables users to create apps without any programming knowledge.
- Part of a cross-functional team of 11 to deliver at least 2 customer-specific projects on time and within budget.
- Spearheaded the design and development of 5 customer-specific mobile applications, resulting in a 30% improvement in user engagement and satisfaction.
- Diagnosed and resolved complex technical issues, resulting in a 20% decrease in app crashes and improved app stability.
- **Technologies used**: Django, Python, AWS, MySQL, Angular.

TULAA (ESOKO) – NAIROBI, KENYA

Position: Front-End Engineer – Full time   **03/2017 – 03/2018**

- Worked on an E-commerce app in Nairobi Kenya for farmers in Africa, enabling them to access credit and market for their farm products..
- Implemented a Js-based Microfrontend using Angular and React.js.
- Decreased load time by 30%, which optimized the page load time by following module-wise routing.
- **Technologies used**: Javascript, React.js, AWS S3, Docker.

HIVISASA – NAIROBI, KENYA

Software Engineer – Full time   **07/2015 – 08/2017**

- Worked with Hivisasa News, a Kenyan news platform.
- **Technologies used:** Python, MongoDB, React.js , AWS S3, Docker, NO-SQL.

EDUCATION

KENYATTA UNIVERSITY NAIROBI
Bachelor of Science Software Engineering   **09/2019- 12/2014**

SKILLS

- **Programming languages**: JavaScript, Python, TypeScript, Java EE
- **Frameworks & Libraries:** Django, FastAPI, Node.js, React js, SQL Alchemy, Mocha, Pytest, Cypress.
- **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis
- **APIs And Architecture:** Rest API, Microservices
- **Cloud Services:** AWS RDS,M AWS S3, AWS SNS, AWS SQS, AWS SQS, AWS Lambda,mm AWS Cognito, AWS CloudWatch.
- **Logging And Monitoring**: ELK Stack, Datadog
- **Containerization And Orchestration:** Docker, Kubernetes
- **Tools:** Git, Jira, Slack, Agile/Scrum, CI/CD, Cronjob
- **Creativity and Innovation Skills**
- **Excellent Communication Skills.**
- **Great Adaptability Skills**

LANGUAGE(S)

- English (C2)
- German (A1)
- Swahili (A1)

PORTFOLIO

- buupass.com
- firmatek.com
- thezebra.com
- appsolute.de
- hivisasa.com/navBarGroup/new