

# PIUS BUSINGE

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## FULL STACK ENGINEER

Skilled Full Stack Engineer with over 4 years of experience developing, maintaining, and designing high-quality and user-friendly web and mobile applications using JavaScript, Node.js, and Flutter. Proficient in adapting the Scrum development methodology, primarily in the Environmental and Software industries. Wonderful at Critical thinking, Communication, Teamwork and Problem-Solving. Hands-on experience in utilizing different technologies such as Java, Dart, React.js, Spring Boot, and MongoDB,

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Full Stack Development • UI/UX • Database Design • Cloud Computing • CI/CD  
Data Structures and Algorithms • API Development • SOLID • Unit Testing • Containerization

**Languages:** JavaScript, Dart, Java, TypeScript

**Web:** Flutter, HTML, CSS, React.js

**Web Services:** REST, SOAP, GraphQL

**Web/App Servers:** Apache Tomcat, Nginx,

**Frameworks:** Flutter, Spring, Node.js, Express.js, Spring Boot, Spring Security, Vue.js, React Native, TensorFlow

**Databases:** Postgres, MySQL, SQLite, MongoDB

**Design Patterns:** MVC, MVP, Simple Factory, Decorator, Observer, Singleton, Facade, Template Method

**SDLC:** Waterfall, Agile, Scrum, DevOps

**Tools:** Bitbucket, Docker, Kubernetes, GitLab, Gradle, Jenkins, Prometheus, GitHub, Elasticsearch, Logstash, Kibana, Slack, Confluence, Jira, CircleCI, Trello, Asana, SonarQube

**Platforms:** Windows, Linux, Android, Web, Watch OS

**Application/Software:** ArcGIS, Stripe, Adobe Photoshop, Adobe Illustrator, Visual Studio Code, IntelliJ IDEA, Microsoft Office Suite, Google Workspace

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## 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).

### GEGABOX TECHNOLOGIES, Kampala, Central, Uganda • 05/2020 – 08/2023

Software development company.

#### Software Engineer

Built applications

- Leveraged Kubernetes for the company website deployment and management, ensuring scalable and reliable infrastructure for all our applications, which led to a 50% reduction in deployment times and an improvement in system uptime.
- Developed comprehensive stream processing for speech recognition and processing, utilizing Java and Spring Boot, enhancing data flow efficiency, and increasing real-time data analysis capabilities, leading to an increased data throughput.
- Optimized the routing feature to find rider delivery routes by implementing a faster search algorithm using JavaScript, reducing lost time in delivery.
- Increased buyer engagement by categorizing customers and subscriptions to the push notifications for all active customers.
- Implemented a recurring payments module and integrated a Mobile phone payments system with Stripe, improving customer conversion rate immensely.
- Reduced support emails and customer bug report telephone calls by 80% for large clients by implementing thorough error handling for NodeJS restful API.

**Technologies Used:** Flutter, React.js, Node.js, JavaScript, Mockito, WebRTC, MongoDB, PostgreSQL, MySQL, AWS RDS, Spring Boot, EKS

### JOINT ENERGY AND ENVIRONMENT PROJECTS, Kampala, Central, Uganda • 12/2019 – 05/2020

Environment non-governmental company with projects from UN and Save the Children.

## Web developer

Built website and carousels and added project mapping for solar.

- Increased visibility and engagement with Denmark sponsors by developing a company website from the ground up, integrating location tracking for projects in remote refugee settlements, resulting in a 40% increase in sponsor inquiries and donations.
- Boosted user engagement for the Kikoni Sure dating Android app by integrating live chat, leading to a significant increase in daily active users and user retention.
- Promoted program uptake by automating messaging through an API for communication between onsite workers, clients, and sponsors using SendGrid, reducing response times by 30% thus increasing participation.
- Developed a tree nursery app for the Youth Livelihoods and Environment Corporation in Uganda, enhancing tree planting project management and increasing survival rates by 60% through improved monitoring and data management.

**Technologies Used:** *Flutter, React.js, Node.js, JavaScript, Mockito, WebRTC, MongoDB, PostgreSQL, MySQL, AWS RDS, Spring Boot, EKS*

## FREELANCE EXPERIENCE

### Upwork, London, United Kingdom • 07/2023 – 11/2023

Tester Work is a global software testing community that allows freelancers to earn money by testing world-class apps and websites.

### QA testers in Uganda

- Tested and validated the international bank transfer process to ensure compliance with regulations and smooth transaction flow across diverse currency and jurisdictional requirements.
- Verified functionality through extensive scenario testing, achieving a high success rate in transaction completion.
- Collaborated closely with development teams to address and resolve software issues, enhancing system stability and improving user experience during international fund transfers.

**Technologies Used:** *Android, iOS, Windows*

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## ACADEMIC PROJECTS

**Maharishi International University (2024) Library Management System:** The Library Management System application oversees library functionalities, including book and user management, and book borrowing processes. Utilized Java, Spring Boot, JavaFX, GitHub, Docker, Kubernetes, MongoDB, TypeScript.

**Maharishi International University (2024) Payment API with microservices:** Developed a secure payment API for seamless online transactions, incorporating Node.js, Express.js, MongoDB, and the Stripe API. Ensured robust backend logic, API endpoints, and secure authentication with OAuth2.

## PERSONAL PROJECTS

**MediaSoup (WEBRTC) 2024:** Open source SFU WebRTC backend configuration. I built a socket and WebRTC implementation for video conferencing and availed the API to public access. Utilized JavaScript, Node.js

**Portfolio website 2023:** Portfolio website: - Built a personal site and blog for blogging and visibility. Built fully on HTML and CSS, with controllers developed JavaScript. Utilized JavaScript, Node.js

## EDUCATION

### Master of Science in Computer Science

*(In progress via distance education; expected completion 06/2026)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** *Enterprise Architecture, Web Application Architecture, Database Management Systems, Web Application Programming*

### Bachelor's degree in Environmental Engineering and Management

Kyambogo University, Kampala, Uganda