



PATRICK AGYEMANG

CONTACT

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SKILLS

- Enterprise and design patterns (Factory pattern, Interface Segregation, Liskov Substitution, Dependency Inversion, Layer Super Type Pattern, Messaging Pattern, Solid Principles)
- Domain-driven design, API design
- Agile team development
- Vulnerability, And Penetration Testing Assessment (OWASP Methodologies)
- Client/Customer Technical Support
- Technical Writing / Documentation
- Business Development
- Market Research
- Research and Development
- Business Model Innovation

TECHNOLOGIES, LANGUAGES, AND TOOLS

- ASP.NET MVC5, Entity Framework, PHP, Laravel, PDO, Python, Django, Java EE, Kotlin, Android, CSS, HTML, JavaScript, JQuery
- MySQL, SQL Server, IIS Server, PostgreSQL, Oracle, MS Access, AWS, Git
- OWASP ZAP, Jenkins, Xampp, SQLyog, Android Studio, Visual Studio, Netbeans

ENTERPRISE PROJECTS WORKED ON

- <https://www.collateralregistry.gov.gh>
- <https://www.ncr.gov.ng/>

PROFESSIONAL SUMMARY

Quality-driven Software Engineer driven to improve business and customer operations by effectively overseeing all types and sizes of complex projects. Versatile developer bringing over 6+ years of professional experience in building robust and performant applications matching required specifications and exceeding expectations. Seeks out opportunities to expand.

WORK HISTORY

Software Engineer 06/2020 - Current
Bsystem Limited - Asylum Down, Accra

- Key contributor in design and implementation of new features for enterprise application of Collateral Registry Of Central Bank of Ghana
- Developed solid working knowledge of engineering, design, and architecture as Lead Software Developer on a team of **6**
- Provided extensive documentation outlining all aspects of implemented updates and changes, resulting in a **72%** reduction in technical support calls
- Spearheaded code refactoring to resolve existing vulnerabilities using OWASP methodologies and secured the system by 91%
- Resolved existing performance issues in database to mitigate time-out issues on application database which optimized the system by **68%**
- Collaborated with solution architects, project managers, and quality assurance specialists to prepare VAPT documentation to serve as a good knowledge transfer for the department and company.
- Championed the research and development process of a Django/python proof of concept analytics reporting tool with built features borrowed into in-house applications.
- Delivered weekly scrum sprints in collaboration with a team of 10 engineers.
- Established reliable source control and software deployment systems.

Co Founder / Chief Executive Officer 01/2019 - 12/2019
Agrolnova Company Limited - MEST Incubator, East Legon, Accra

- Implemented a post-mortem business use case and product re-engineering with MBA graduates from Georgetown University, Washington DC, the USA to increase revenue by 55%
- Implemented a language framework to help and train Francophone students with zero English background to proficiency of 65% in terms of speaking, understanding, and writing.
- Worked with co-founders, mentors, growth hackers, partners, and investors to enforce company culture and represented the company at world-class conferences like **Africa Green Revolution Forum 2019 - Youth in agriculture and AGRIBUSINESS 4 CHANGE, GIZ, Ethiopia.**
- Built productive relationships with industry partners and competitors to support strategic business objectives.

Co Founder / Chief Technology Officer 10/2017 - 12/2018
Agrolnova Company Limited - MEST Incubator, East Legon, Accra

- <http://www.pacra.org.zm/mprs>
- <https://reputa.herokuapp.com/>
- <https://smartcareaid.com/>

AWARDS / HONORS

- Kosmos Innovation Center GH Agri – Tech Challenge, 2017 Co-winner
- GIZ Mobile Application Start-Up Hackathon Challenge Winner, 2018
- Pitch Agric – Hack Co-Winner, 2018

- I championed the architecture, development, and deployment of a robust ERP called Akokotakra through market research conducted by Kosmos Energy Ghana's flagship program.
- Managed a team of **8** employees, ensuring that a **\$50K budgeted** project MVP was completed by the expected deadline of one year in incubation through a human-centered design approach.
- Trained, mentored, onboarded, and Supervised 4 tech employees in developing quality management systems to exact user requirements, the company's development, and product stack.
- Maintained thorough understanding of all key and current technologies, platforms and trends.

Software Developer

03/2017 – 09/2017

Bsystems Limited – Asylum Down, Accra

- Joined an agile team of 4 software engineers to develop Bank of Ghana's Collateral Registry and the Patent and Companies Registration Agency (PARCA) of Zambia enterprise software PARCA was ranked as the second-best Business Collateral Registry Solution after New Zealand 2018 in the world.
- Trained interns from zero intuitive interface background to having a good working knowledge of CSS, HTML, bootstrap, JavaScript, etc., and improving on application interfaces
- Developed and implemented high-performing scanning components using SQL Server.
- Carefully documented technical workflows, using records for training new staff.

Software Developer

01/2016 – 02/2017

Sabonay Technologies – Buokrom, Kumasi

- Developed a web service messaging API to communicate to all in-house applications by sending SMS and emails as a weekly report of active users for monitoring purposes
- Wrote clean, clear, and well-tested code for various projects.
- Conducted rigorous root-cause analyses and investigations to identify and correct software issues.

Software Developer Intern

09/2014 – 12/2015

Sabonay Technologies – Buokrom – Kumasi, Ghana

- Introduced to Java EE programming language.
- Assisted in working with chief engineers in maintaining in-house
- Improved interfaces of all in-house systems and applications in JSF using Prime Faces.
- Learned how to deploy to test servers like Glassfish server environments.

EDUCATION

Post-graduate program: Entrepreneurship in Software Development, 12/2019

Meltwater Entrepreneurial School of Technology – MEST Incubator, East Legon, Accra

MEST Africa is a highly competitive, full-time, two-year post-graduate program combining software product development with business.

Bachelor of Science: Computer Science, 06/2015

Kwame Nkrumah University Of Science and Technology – Kumasi, Ashanti Region