AALIYAH PROVIDENCE

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PERSONAL STATEMENT

Motivated Full-stack Software Developer with a strong foundation in mobile and web application development, software design and project delivery. Proficient in building and testing web-based platforms utilising a range of programming languages and frameworks including Python, Java and JavaScript (such as Angular and React). Comfortable working across the stack with an emphasis on usability and functionality. Complemented by Google-certified training in UX design and research, bringing a user-first mindset to the development process. A fast learner with strong problem-solving abilities, effective time management, and a collaborative work ethic. Seeking a developer role where I can continue to grow technically while contributing to impactful, user-focused digital tools.

TECHNICAL PROFILE

Databases: Relational - PostgreSQL, MySQL, MSSQL   **NoSQL** - MongoDB, Redis
Programming languages: Java, C#, Python, Dart, C, Swift, Golang, JavaScript
Command-line Tools: bash, grep, awk, sed, curl, git, docker, ssh, make
Platforms: Node.js, iOS, Android, UNIX, Linux
Web frameworks: ASP.NET, Spring, Flask, Django
Web technologies: HTML, CSS, CSHTML, jQuery, Ajax, Typescript, REST APIs
Frontend frameworks & libraries: Angular, React, Bootstrap, Flutter
Other: Microsoft Office Suite, Celery, Figma, Inkscape, Paper Prototyping, High & Low-Fidelity Wireframing, UX Research Tools

WORK EXPERIENCE

Research Software Engineer, Earlham Institute, Norwich, United Kingdom   [Full-time]
(Dec 2024 - PRESENT)

- Contributed to the development of the Collaborative OPen Omics (COPO) platform, a metadata brokering service supporting projects such as Aquatic Symbiosis Genomics (ASG), Darwin Tree of Life (DToL), the European Reference Genome Atlas (ERGA) and ERGA Pilot.
- Responded to bug reports and feature requests from stakeholders such as Sanger Institute, Biodiversity Genomics Europe (BGE) project and users, implementing solutions to enhance platform functionality and user experience.
- Designed and delivered APIs and user-facing tools enabling researchers to annotate metadata, deposit datasets in public repositories like BioImage Archive (BIA), European Nucleotide Archive (ENA) and Zenodo and link data to publications.
- Managed software solutions for tracking and lifecycle management of life science data across the COPO ecosystem.

- Used Celery for distributed task queue management and background job processing in a Python web application.
- Reviewed Git pull requests to maintain code quality and suggest improvements prior to integration.
- Designed and implemented data structures and user interfaces to represent life science metadata, including reference genomes and marine species.
- Promoted Findability, Accessibility, Interoperability and Reusability (FAIR) data principles by developing scalable deposition tools, contributing to best practices, and delivering training at national and international scientific events.
- Diagnosed performance issues and implemented fixes to ensure stable, responsive service delivery across the web platform.
- Used command-line tools in UNIX/Linux environments for scripting, automation, text processing, file management and system operations like bash shell environments and grep to search text and using patterns

Junior Software Developer, Earlham Institute, Norwich, United Kingdom [Full-time]
                                                                                      (Feb 2022 - Dec 2024)

- Contributed to the maintenance and testing of the Collaborative OPen Omics (COPO) metadata platform, a Python Django-based application, by developing unit and integration tests.
- Assisted the research infrastructure team in improving system reliability and service continuity.
- Supported internal and external users, troubleshooting issues and ensuring smooth adoption of the platform.
- Updated project documentation and website content to improve usability and clarity.
- Maintained and improved code quality by adhering to best practices, refining conventions, and conducting code reviews within an existing collaborative project.
- Maintained quality assurance for COPO data pipelines, identifying and resolving issues proactively.
- Engaged with the research community through seminars and poster presentations, promoting COPO.
- Incorporated feedback from stakeholders and users to guide usability of the web application.
- Designed and consumed RESTful APIs to enable communication between microservices and client applications.
- Managed and queried backend data using MongoDB to support omics data content, PostgreSQL for user authentication and details and Redis for caching and session management.
- Developed interactive visualisations of brokered metadata using D3.js, including world maps, pie charts, bar and line graphs with SVG-based graphics.

Graphic Designer, Cupid Delights, United Kingdom   [Freelance]   (Oct 2021 - Feb 2022)
- Designed a range of branded marketing materials including business cards, nutrition labels, banners, food menus, flyers (sales, holiday specials), review posts, reheating guides, notices and window decals.

- Produced promotional videos showcasing product availability, preparation processes, and behind-the-scenes content.
- Added branding elements (e.g. logo overlays) to photos and videos for consistency and recognition across digital platforms.

Software Developer, Data Co-ordination & Archiving Team, European Molecular Biology Laboratory - European Bioinformatics Institute, Hinxton, Cambridgeshire, United Kingdom [Secondment] (Mar 2023 – Mar 2023)

- Developed user interface (UI) features for the European Nucleotide Archive (ENA) Webin Portal using Angular and TypeScript, including support for custom fields in downloadable templates and improved access to public records.
- Implemented display formats for genome assembly accessions (e.g. concatenated or separated FASTA, text) and chromosome count views within the ENA browser presentation services.
- Gained practical understanding of ENA's data submission and retrieval systems, including its APIs, presentation guides and integration in the International Nucleotide Sequence Database Collaboration (INSDC) collaboration.
- Attended and contributed to team meetings on ENA content, user support, submission services, and development planning across Data Co-ordination & Archiving and Infrastructure Technology teams.
- Acquired familiarity with ENA submission standards, checklists, training materials and external collaboration protocols.

Wordpress Front-end Developer, Island Scholars Incorporation, New Jersey, United States of America [Freelance] (Oct 2022 - Nov 2022)

- Improved the front-end of a WordPress-based scholarship and mentorship platform by optimising user experience, revising the contact form and updating carousel images.
- Ensured accurate implementation of client requirements through close attention to detail and effective communication.
- Debugged and resolved issues in the existing codebase; refactored and optimised legacy code for better performance.
- Applied basic UX/UI principles to enhance visual layout and user interactions.
- Collaborated with the client and worked independently to deliver project milestones on time.
- Utilised tools and technologies including WooCommerce, Advanced custom fields, post types, themes as well as plugins, jQuery, HTML, CSS, and JavaScript.

.Net Developer, Loongo Company Limited, Suzhou, Jiangsu, China [Internship] (Mar 2021 – Jun 2021)

- Contributed to the design and development of a course management web application using ASP.NET MVC and C#.
- Collaborated with stakeholders and project supervisors to gather feedback, inform decisions and guide development priorities.

- Implemented multilingual support and notification features using Global Resources, SignalR, jQuery, Ajax and MSSQL.
- Drafted operational procedures and a detailed project management plan to support project execution.
- Conducted requirements analysis and produced technical documentation, recommendations and time as well as cost estimates.
- Delivered clear, detailed progress reports to supervisors, clients and team members.
- Led a team of interns through the full software development lifecycle - from design and implementation to testing and deployment.
- Ensured the final product aligned with business goals and provided an optimised user experience.

File Clerk, Assistant Accountant & Document Processing Clerk, Kris An Charles Investments Company Limited, Kingston, Jamaica   **[Fixed-term]**   **(Jun 2019 – Aug 2019)**

- Filed cheque stubs, bank statements and reconciliation reports in an organised and timely manner
- Processed loan payment payroll entries and updated customer accounts accordingly
- Maintained financial records in QuickBooks, including loan disbursements, refunds and rebates
- Performed bank reconciliations to ensure consistency between internal records and bank statements

Data Entry Clerk & Junior Clerk, General Employees Co-operative Credit Union Limited, Kingstown, St. Vincent and the Grenadines   **[Full-time]**   **(Dec 2015 – Aug 2017; May 2018 – Aug 2018)**

- Organised the database of members who had dormant accounts
- Processed the deposits and withdrawals requests of members

Receptionist/Typist, Searchlight Newspaper, Kingstown, St. Vincent and the Grenadines   **[Fixed-term]**   **(Oct 2015 – Nov 2015)**

- Communicated effectively and professionally with customers in person, by phone and via email; provided information on advertising rates.
- Handled and resolved customer complaints politely and efficiently, maintaining a high standard of service.
- Answered and directed telephone calls to appropriate staff members or took accurate messages when necessary.
- Typed and formatted articles for publication, demonstrating strong secretarial and organisational skills.
- Maintained a customer-focused approach with excellent verbal and written communication skills.

Administrative Assistant, Healthy Lifestyles, Kingstown, St. Vincent and the Grenadines   **[Full-time]**   **(Sept 2015 – Oct 2015)**

- Managed appointments, meetings, and office supplies to maintain day-to-day efficiency

- Improved administrative workflows by leading a successful "go digital" transition for planning and paperwork
- Handled new client enquiries professionally via phone and in person
- Maintained confidentiality while copying, scanning, binding and collating sensitive documents
- Welcomed and assisted clients and visitors, ensuring a professional and friendly experience
- Performed additional duties as required to support the smooth operation of the office

EDUCATION

Global Institute of Software Technology, Suzhou, Jiangsu, China   **(Sept 2019 – Jun 2021)**

Diploma in Software Engineering

- Led end-to-end software development lifecycle for course-based mobile and web applications, from requirements gathering to deployment and maintenance.
- Served as Lead Project Manager, Tester, and Requirements Analyst on final-year Software Engineering Capstone Project (Jan–Jul 2021).
- Analysed client needs and translated them into actionable design and technical requirements.
- Collaborated with supervisors, project stakeholders and cross-functional teams to deliver tailored software solutions.
- Gained hands-on experience with Dart, C# and Java (for scripting and automation).
- Conducted project presentations and client demos, bridging technical and non-technical communication.
- Proactively monitored and mitigated project risks while introducing improved software processes and tools.
- Maintained a GPA of 3.0+

Relevant modules: Advanced Database Systems, Android & iOS App Development, Software Architecture, Software Project Management, Software Modelling, Web & Mobile App Development

The University of the West Indies Mona, Kingston, Jamaica   **(Aug 2017 – May 2019)**

Bsc. in Software Engineering (2:1) - Major in Mobile Application Technologies

- Designed and implemented efficient data structures and algorithms with consideration for time and space complexity.
- Developed object-oriented Python and Java applications for mobile and web platforms.
- Followed software development lifecycle, from requirements gathering and analysis to testing and deployment.
- Wrote maintainable and testable code aligned with IEEE coding standards.
- Participated in Agile project teams and contributed to the development of high-performance academic software projects.
- Awards: Mary Seacole Hall Sportswoman of the Year (2018–2019), Outstanding Contribution Award (2017–2018)
- Affiliations: Member of UWI Computing Society and Angela King Leadership Academy
- Graduated with GPA 3.0+

<u>Relevant modules</u>: Algorithms, Discrete Mathematics, Mobile Web Programming, Object-Oriented Design, Requirements Engineering

St. Vincent and the Grenadines Community College Division of Arts, Sciences and General Studies, Kingstown, St. Vincent and the Grenadines (Aug 2013 – Jun 2015)

- Followed established software development methodologies to deliver accurate, well-documented solutions that met project requirements and deadlines
- Developed practical skills in C programming through academic coursework and projects
- Built a strong foundation in quantitative reasoning through advanced study in Pure Mathematics and Computer Science
- Recognised for academic excellence in the 2014 and 2015 CAPE May/June examinations, passing 8 A-Level subject units with commendation

St. Vincent Girls' High School, Kingstown, St. Vincent and the Grenadines (Sept 2008 – Jun 2013)

- Passed 11 CXC/CSEC O-Level subjects, including Biology, Chemistry, Physics, Mathematics, English, Information Technology and Spanish
- Awarded Excellence Award for academic achievement (2013)
- Received GHS 102nd Anniversary award for exceptional performance in academics and athletics
- Named Athlete of the Year (2013)
- Served as Captain of both the GHS Steel Orchestra and Staff House (2011–2013), demonstrating leadership and collaboration
- Gained early exposure to programming through Pascal as an introduction to computer science

ADDITIONAL QUALIFICATIONS

- Skilled in Unified Modeling Language (UML) for system design and architecture
- Applied PMBOK's 10 project management knowledge areas across all five process groups to real-world project scenarios

CERTIFICATIONS & ONLINE LEARNING

- Google UX Design Professional Certificate (incl. Foundations, Wireframing, Prototyping, Research)
- Cybersecurity Attack and Defense Fundamentals – Coursera, by EC-Council (Aug 2024)
- Machine Learning in Python for Health and Disease, Learn to Discover (Nov 2023)
- Basic Python & Data Handling in Health and Disease, Learn to Discover (Mar 2023)
- Microsoft Technology Associate: Software Development Fundamentals (MTA 98-361), May, 2021

INTERESTS

Sports: Tennis and badminton,
Publishing open-source code to GitHub

LANGUAGES

English

SOFT SKILLS

- Strong knowledge of full-stack development
- Effective working both independently and collaboratively in teams
- Critical and logical thinker with a keen eye for detail
- Excellent time management and organisational skills
- Highly motivated and adaptable with a passion for learning new technologies
- Skilled at resolving complex challenges through creative problem-solving
- Committed to continuous personal and professional development
- Tactful, articulate, and strong interpersonal communication skills (verbal and written)
- Proficient in presentation, negotiation, and persuasion
- Good business and technical acumen
- Open to mentorship and constructive feedback
- Comfortable working in process-driven environments
- Proactive, confident in voicing ideas and driving change
- Able to build rapport with diverse stakeholders

HARD SKILLS

- Programming & development environments: Visual Studio Code, Notepad++, Sublime Text, Eclipse, JupyterLab, PyCharm
- Version control: Git, GitHub
- Big Data & Analytics: Docker, Apache Hadoop HDFS, Apache Spark, Apache Hive
- Database management: Microsoft SQL Server, MySQL, MongoDB, Firebase Cloud Firestore, phpMyAdmin, MariaDB, SQLite, Redis, PostgreSQL
- Mobile application development: Xcode, Android Studio, Flutter, MIT App Inventor
- Software modelling & analysis: Visual Paradigm Community Edition, StarUML
- Project management & collaboration: TeamGantt, Git, ProjectLibre, Trello, Google Drive
- Software testing: JUnit, Dart unit test, Django test framework, Python unittest, Selenium IDE, Selenium WebDriver
- Web development: Python Flask, ASP.NET MVC framework, Visual Studio, Bootstrap, Django
- Communication tools: Google Workspace, Zoom, Microsoft Teams, Discord, Slack
- General IT skills: MS Word, MS Excel