Philip George

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SOFTWARE ENGINEER

Dynamic and innovative Software Engineer with extensive experience in full-stack development, project leadership, and agile methodologies. Proven track record in delivering high-quality software solutions, enhancing system performance, and implementing modern technologies in various domains.

AREAS OF EXPERTISE

Software Engineering | Full Stack Development | Project Leadership | Agile Methodologies | Problem Solving | Cross-Functional Collaboration | Test-Driven Development (TDD) | Continuous Integration & Continuous Delivery (CI/CD) | Technical Writing | Cloud Computing | User Interface Design | Database Management

Languages: TypeScript | Python | SQL | Java | Shell/Bash | JavaScript
Web Development: React | Node.js | GraphQL | Django | NGINX | GitHub Actions | Jest | Cypress | Storybook | Spring Framework | Grails | Kibana | Maven | Gradle
Machine Learning: TensorFlow (Keras), NumPy, MatPlotLib, SciPy
DevOps + Cloud: AWS | Docker | Terraform | Serverless
Databases mySQL | MongoDB | SQLite | Postgres | ElasticSearch
Technologies: ECS | S3 | EC2 | Cloudfront | ELB | Serverless | Edge Functions | SNS | SQS

PERFORMANCE HIGHLIGHTS

- **Greenfield Search Web-App for NHS:** Led development, enhancing NHS's health data concept management and accessibility.
- **Stakeholder Meeting Presentations:** Demonstrated new features, contributing to the acquisition of a client contract.
- **Web-App Performance Improvement:** Achieved a 1000% decrease in page load time, significantly boosting app performance.
- **Dataset Browser Front-End Development:** Delivered an intuitive and robust dataset browser, enhancing data accessibility.
- **Usability and Accessibility Lectures:** Raised company-wide awareness, fostering inclusive and user-friendly product design.
- **TypeScript Codebase Conversion:** Led successful migration, enhancing code robustness and maintainability.

PROFESSIONAL EXPERIENCE

Graduate Software Engineer / Software Engineer   Nov 2019 — Jan 2022
MetadataWorks | London, England

- Spearheaded the development of a pioneering search web-app for the NHS, enhancing health data concept access and management by leading a team, integrating multiple datasets, and implementing advanced search functionalities.
- Enhanced stakeholder engagement and secured a client contract through effective feature demonstrations and progress presentations, showcasing development milestones in stakeholder meetings.
- Dramatically improved web-app performance by implementing advanced caching and pagination techniques, achieving a 1000% reduction in page load times.
- Led the front-end development of a dataset browser with React and TypeScript, delivering a robust and user-friendly interface that improved data accessibility.
- Raised company-wide awareness on usability and accessibility, fostering a more inclusive product design through lectures and presentations.
- Modernized the front-end codebase by transitioning to TypeScript, enhancing code robustness, maintainability, and scalability with minimal disruption.

Full Stack Software Developer   July 2022 — July 2023
Dunelm | London, England

- Led the modernization of a key platform component, improving functionality and performance through strategic planning, architecture diagrams, and team collaborations.
- Advanced team expertise and innovation by sharing insights on the latest React/TypeScript technologies and techniques gleaned from industry conferences.
- Promoted code quality and team efficiency through pair programming and best practices, with a focus on Test-Driven Development (TDD).
- Enhanced system efficiency by implementing server-side caching for the GraphQL backend, optimizing data retrieval with comprehensive calls.

London Software Engineer   July 2023 — November 2023
Disperse | London, England

- Delivered the 'Mark Up and Share' feature ahead of a critical stakeholder demo, customizing a library to enhance functionality and fix user-reported bugs, notably in 360° images.
- Contributed to 10 production releases, including personally managing 4 updates, improving application performance and user experience.
- Quickly adapted to a new SaaS application suite, effectively contributing to development and deployment processes within three months.
- Left a lasting positive impact through key feature delivery and adaptation to a complex codebase, despite contract non-renewal due to external factors.

Product Developer   Jan 2022 — July 2022
Buyapowa | London, England

- Developed and deployed greenfield React screens globally for a referral management system, working with major brands to enhance interface functionality. Transitioned from the role post-probation due to misalignment with career goals.

PERSONAL PROJECTS

Decentralised Video Chat (2020-2021)

- Custom video chat application developed during COVID-19 lockdowns.
- Integrated features like picture-in-picture and screen-sharing.
- Technologies: React, TypeScript, Firebase, WebRTC.

Artificial Intelligence on the Generation of Music by Emotional Tone (2019 - 2020)

- AI model development to analyze music composition and emotional evocation.
- Technologies: GAN, CRNN, RNN, Python, TensorFlow (Keras), Spotify API

Countdown Numbers Game (2022)

- Terminal-based game inspired by the TV show "Countdown".
- Developed a Python script capable of finding solutions.
- (In Progress) Rewriting the interface in React and running the computationally heavy code as Rust compiled into WebAssembly.
- Technologies: Python, Rust, React, Vercel Edge Functions, Astro