Philip George

London, England   +447484188198   philipgeorge.io   linkedin.com/in/philipgeorgeio   github.com/pg328

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

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

- Developed the 'Mark Up and Share' feature using a test-first approach, demonstrating a strong commitment to TDD and the iterative "build, measure, learn" cycle, enhancing the product's user experience and functionality.
- Actively contributed to multiple production releases, enhancing application performance and user experience, showcasing deep knowledge of web-based development and an agile, iterative approach to product development.
- Rapidly adapted to a new suite of SaaS applications, demonstrating versatility in different programming paradigms and a strong desire to live "in the product loop," contributing effectively to development and deployment processes.
- Despite the contract's non-renewal, left a positive impact through key feature delivery and adaptation to a complex codebase, showcasing resilience and a deep commitment to innovation and user-centered design.

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

- Pioneered the modernization of a crucial platform component, demonstrating a strong innovation mindset and LEAN startup knowledge, improving functionality and performance through strategic planning and

collaborative team efforts.

- Kept abreast of the latest React/TypeScript technologies at industry conferences, sharing knowledge with the team to foster an innovative working environment and enhance web-based development skills.
- Emphasized Test-Driven Development (TDD) in pair programming sessions, sharing best practices and significantly improving code quality and team efficiency, reflecting a preference for TDD and functional programming.
- Designed and implemented server-side caching for the GraphQL backend, significantly increasing system efficiency and streamlining data processes, showcasing web development skills and AWS knowledge.

Full Stack Developer   Jan 2022 — July 2022
Buyapowa | London, England

- Developed and globally deployed greenfield React screens for a referral management system, employing Test-Driven Development and functional programming principles to ensure a seamless and robust user interface. This work highlighted web-based development skills and a deep understanding of AWS, aligning with major brands to enhance interface functionality and user experience.

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

- Led the innovative development of a search web-app for the NHS, integrating multiple datasets and implementing advanced search functionalities, demonstrating an innovation mindset and high user proximity. Prioritized Test-Driven Development (TDD) from the outset to ensure robust and maintainable code.
- Enhanced stakeholder engagement and secured a client contract through effective feature demonstrations and progress presentations, showcasing an ability to rapidly iterate based on user feedback in a lean startup environment.
- Implemented advanced caching and pagination techniques, significantly improving web-app performance, reflecting deep knowledge of web-based development and a commitment to the build-measure-learn cycle.
- Championed front-end development using React and TypeScript, integrating functional programming principles to create a user-friendly dataset browser, enhancing data accessibility and demonstrating proficiency in different programming paradigms.
- Advocated for usability and accessibility, raising awareness through lectures and fostering an inclusive product design approach. This initiative underscored the importance of living "in the product loop," emphasizing the iterative process of testing, failing, refactoring, and succeeding.
- Spearheaded the modernization of the front-end codebase to TypeScript, showcasing a solid understanding of web development skills and AWS, which contributed to a more robust, scalable, and maintainable codebase.

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