resume

Pete Butland BSc (Hons)

LinkedIn Profile

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Personal Information

- **Birth Year:** 1973
- **Nationality:** English
- **Residential Status:** English/Australian dual-citizenship

Overview

I am an experienced software developer with a wide variety of exposure in different aspects of software development, including requirements analysis, architecture and design, coding, testing, implementation, release and change management, and devops. My main specialities include being able to learn and understand new and complex systems extremely quickly allowing me to "hit the ground running" and become productive in as short a time as possible.

I constantly strive to pay meticulous attention to detail to ensure the correct solution is delivered on time and at the appropriate cost. Failing to understand user requirements is something that I believe is one of the most costly aspects of software development. Therefore I always try, where possible, to ensure that every stakeholder understands what will be developed for any particular part of a system before any significant development effort has been expended.

I also believe that the tools that a developer uses to provide software solutions (including which programming languages are used) are just that: tools. Programming languages and technologies come and go, so a good software developer should be able to pick up new tools and discard old tools easily where applicable. While it is important to recognise that certain tools are better suited to some problems than others, in my opinion, the main focus for a developer should be in understanding the system that they are developing and fully understanding the requirements for that system. And to not get overly distracted with the specific technologies that should be used to achieve the end goal.

Skills Summary

- **Languages:** JAVA, NodeJS, Typescript, JavaScript, Groovy, Ansible, C/C++, HTML, Ruby, Python
- **Cloud Technologies:** AWS, Azure
- **AI & LLMs:** GitHub Copilot (GPT-4.1) and Claude 3.7/4 as coding assistants for system design, architecture, development, and testing. Integration with LLMs via APIs. Prompt engineering
- **Databases:** Postgres, Oracle, MySQL, Neo4J, DynamoDb, MongoDB, Cassandra, Microsoft SQL Server, Sybase, SAS, Microsoft Access, IBM DB2
- **Technologies and Frameworks:** Spring, Spring Boot, Spring Data, Spring Security, Hibernate, Docker, React, Apache Camel, Guice, Angular, Ember, Bootstrap, Flyway, Liquibase, XML, JAXB, JDBC, Micro-services, Service Oriented Architecture, Web services (SOAP, RESTful, GraphQL), JSP, jQuery, OSGi (Equinox), Eclipse RCP, AJAX, GWT, Velocity, JUnit, Mockito, EasyMock, NextApp Echo2 (open source AJAX library), Jasper Reports, JNI, RMI, Unicode, UML, Swing, SWT
- **Source Control:** Git/GitHub/Bitbucket, Subversion (SVN), CVS, PVCS
- **Application Servers:** Express, Tomcat, Jetty, Glassfish, WebLogic, WebSphere
- **Development Tools:** VS Code, IntelliJ, Eclipse, Gradle, Maven, Ant, Yarn, NPM, Jenkins, Bamboo, Jira, Cobertura, Crucible, Confluence, Enterprise Architect
- **Testing tools:** JUnit, Jest, Storybook, Playwright, Testcafe, Geb, Spock, Enzyme, Sinon, Gatling, JMeter, Cucumber
- **Operating Systems:** Mac OS, Ubuntu, Windows, Sun Solaris, IBM AIX, OS/2, TSO/MVS
- **Third Party Systems:** New Relic, Sumo Logic, AppDynamics, Grafana, Auth0, ActiveVOS, Open LDAP, Active Directory, Sun Access Manager, Sun Identity Manager

Experience

Personal Projects (2024-2025)
Self-initiated

- Engineered a cross-platform mobile app (Android/iOS) with a custom lightweight framework in JavaScript, Java, and Swift, rendering real-time 3D models of the Earth, Sun, and Moon using three.js to visualise solar time (solarclock-app).

- Built a pipeline to convert image-based US court transcripts to text, then synthesised audio versions using MyShell OpenVoice, using Node.js and TypeScript (caughtlistening.net).

- Developed a web application to visually aggregate and filter 2024 US election polling results (from https://projects.fivethirtyeight.com) by source and voter type, using JavaScript and Highcharts JS for graphical data presentation.

- Explored uses of LLMs as coding assistants (Copilot agentic AI) on the following projects.

- Developed a web-based solar power optimiser to analyse household energy data and solar power generation potential, providing personalised solar potential insights (solar).

- Created a tool, written in Typescript, to scrape and transform solar and lunar eclipse prediction data into JSON, enabling API-driven access to astronomical events (eclipse-predictions).

- Created the AI Darwin Awards.

- Designed and implemented a website featuring interactive simulators for vintage 1970s–80s computers, built with React and TypeScript, and integrated with Ollama LLMs for terminal command processing (NAAS).

- Prototyped a social media ranking tool utilising LLMs to evaluate and rank posts based on "social benefit" metrics, experimenting with the potential for AI-driven content curation (ranking-algorithm).

- Architected an open recipe API (OpenAPI spec), delivering a TypeScript/Express backend and a React-based frontend for recipe creation management (open-recipe).

Origin Energy (2021–2024)

Software Developer
Melbourne, AU

- Co-led the successful integration of LPG customers into the Origin MyAccount web application, collaborating closely with cross-functional teams to deliver seamless user experiences. Technologies included React, Node.js, Java, AWS, and Salesforce.

- Architected and deployed a scalable Node.js GraphQL backend on AWS ECS Fargate, enabling efficient data access and improved system reliability for customer-facing features.
- Designed and documented OpenAPI-compliant REST APIs to facilitate robust and secure integration with Salesforce, streamlining business processes and data flows between platforms.
- Enhanced multi-CRM support and optimised system performance, resulting in reduced latency and improved customer satisfaction.
- Championed best practices in documentation, automated testing (Jest, Testcafe, Gatling), and CI/CD pipelines using Jenkins, significantly increasing deployment quality and speed.
- Delivered presentations at internal guilds on monitoring, alerting, and performance optimisation, fostering a culture of knowledge sharing and continuous improvement.

Woolworths Group (2021)

Software Developer
Remote

- Helped lead the migration of a legacy SAP/Java application to a modern microservices architecture using Java (SpringBoot), Node.js, and React, improving maintainability and scalability.
- Orchestrated the deployment of a Kubernetes cluster in Azure using Terraform and Jenkins, managing the transition from AWS and ensuring high availability and security.
- Analysed and optimised Aurora RDS MySQL performance for high-traffic retail events, implementing tuning strategies that reduced query times and improved system resilience.

Origin Energy (2018–2020)

Software Developer
Melbourne, AU

- Delivered a new customer energy connection system leveraging React, SpringBoot, Postgres, and SAP, enabling streamlined onboarding and improved customer experience.
- Helped lead the design and implementation of AWS cloud infrastructure, CI/CD pipelines, and monitoring solutions, ensuring robust, automated deployments and proactive system health management.
- Managed and executed data migration of customer records from legacy systems using AWS Lambda, ensuring data integrity and zero business disruption.

National Australia Bank (2018)

Software Developer
Melbourne, AU

- Developed a merchant insights analytics platform using Angular, AWS, SpringBoot, DynamoDB, and Postgres, providing actionable business intelligence to stakeholders.
- Designed a flexible plug-in architecture and implemented CI pipelines, enabling rapid feature delivery and integration of new analytics modules.
- Conducted proof-of-concept projects exploring emerging technologies such as machine learning and face recognition, evaluating their potential for future banking solutions.
- Developed a regulatory EU trade reporting tool using Spring Boot, Apache Camel, and ActiveMQ, ensuring compliance with evolving financial regulations.
- Introduced modern Java 8 practices, including streams and functional programming, and mentored team members to improve code quality and maintainability.
- Led the design and implementation of robust logging, auditing, and error handling frameworks, enhancing system transparency and reliability.

Sensis (2015–2017)

Software Developer
Melbourne, AU

- Built SEM (Search Engine Marketing) product selector and directory publishing tools using Spring, Angular, and AWS, supporting business growth and digital transformation.
- Redevelopment of Yellowpages and Whitepages backend systems and migration to AWS, utilising SpringBoot and Neo4J, resulting in improved scalability and reduced operational costs.
- Managed the migration of legacy Whitepages data to Neo4J, ensuring data consistency and enabling advanced search capabilities.
- Directed the migration of GIS mapping systems to AWS and transitioned to open-source mapping data, reducing licensing costs and increasing flexibility.

ANZ (2013–2014)

Analyst Programmer
Wellington, NZ

- Developed and maintained the New Zealand internet banking and mobile API layer using J2EE, Spring, Hibernate, and GWT, supporting secure and reliable digital banking services.
- Advocated for and implemented code quality improvements and Agile development practices, contributing to faster delivery cycles and higher team productivity.

Bureau of Meteorology (2013)

Software Developer
Melbourne, AU

- Enhanced the National Water Account system with new features and performance improvements using Spring, GWT, MySQL, and BPEL.
- Improved system documentation and championed Agile processes, increasing project transparency and team collaboration.

Sensis (Telstra) (2010–2012)

Software Developer
Melbourne, AU

- Developed and delivered a directory listing adapter allowing customers access to more information pertinent to their listings.
- Managed the handover from an external provider of the existing identity management system and led the project to replace it with an in-house solution using J2EE and LDAP, ensuring data accuracy and security.
- Developed RESTful web services and a self-service platform, empowering customers to manage their own directory listings and reducing support overhead.

Genix Ventures (2006–2010)

Software Developer
Melbourne, AU

- Led the development of a modular web application plugin framework using OSGi, Eclipse RCP, Spring, and Hibernate, enabling rapid delivery of new features and customisations.
- Implemented CI/CD pipelines and Agile methodologies, improving release frequency and team responsiveness to changing requirements.
- Creation and maintenance of supporting open source projects, enhancing community engagement and collaboration.

Monash University (2005)

Part-time Design Tutor
Melbourne, AU

- Tutored undergraduate students in analysis and design methodologies, helping them develop strong foundational skills in software engineering principles.

CogState (2004–2005)

Software Engineer
Melbourne, AU

- Built automated test harnesses and utilities for cognitive diagnostic tools using Java, JUnit, Eclipse, Ant, and XML, improving product reliability and test coverage. Utilised Gaussian random number generation to ensure statistical validity.

Space-Time Research (2000–2004)

Team Lead/Software Engineer
Melbourne, AU

- Led the design and development of the SuperCHANNEL ETL product using C++, Java, JDBC, XML, and various RDBMS technologies, delivering robust data integration solutions to clients.

- Improved performance of proprietary database formats by implementing indexing algorithms and designing and developing a distributed database implementation.
- Managed a team of engineers and oversaw project delivery, ensuring high-quality outcomes and adherence to timelines.

MITS (1999–2000)

Consultant
Melbourne, AU

- Designed and implemented SCADA/DMS system using C++ and COM/DCOM, contributing to improved system reliability and maintainability.

Tellabs (1997–1998)

Software Engineer
London, UK

- Developed network management system (NMS) user interface libraries and sub-systems for mobile phone networks using C++, OS/2, and Windows NT, supporting critical telecommunications infrastructure.

ISSC Australia Ltd. (1996)

Software Engineer
Melbourne, AU

- Developed utilities and support tools for banking systems using C++, DB2, and REXX, enhancing operational efficiency and data processing capabilities.

Inference Europe Ltd. (1995)

Software Engineer
London, UK

- Developed and maintained expert systems on TSO/MVS, OS/2, Windows, and Solaris using C++, delivering tailored solutions for individual client needs.

IBM UK Ltd. (1991–1994)

Sponsored Student
Portsmouth, UK

- Developed DB2-based client/server modules using PL/1, for an internal order and supply application.
- Designed and implemented an automated regression test system using REXX, improving software quality and reducing manual testing effort.

Education

University of Portsmouth (1991 - 1994)
Portsmouth, UK
BSc. (Honours) Degree in Computer Science

- Final year courses: Object-Oriented Methods, Windows Programming and Application Development, Human Computer Interaction, Computer Graphics
- Programming experience: C, C++, Visual Basic, Smalltalk (OS/2, MS Windows)
- Final year project: "The automation of a regression test facility"

Horndean Technology College (1989 - 1991)
Portsmouth, UK

- 3 'A' Levels: Physics, Pure Mathematics, Applied Mathematics

Horndean Technology College (1987 - 1989)
Portsmouth, UK

- 9 GCSEs: Mathematics, Physics, Chemistry, English Literature, English, Music, Design, French, German

Interests

Music, Reading, Walking, Cryptic crosswords, Sailing, Unicycling, and Juggling.

References

Available upon request.

Testimonials

"We couldn't have gotten where we did without you and will definitely feel your absence. Hope to see you around some time in the future." - *Senior Developer*

"It's been impressive to see what you can do. Hopefully we get another chance to work together." - *Engineering Manager*

"Thanks for all your help and laughs - couldn't have done it without you. Hopefully we'll cross paths a third time." - *Business Analyst*

"You put in a massive effort on WhitePages migration, Open Street Maps, and of course the Marshall projects. Stay in touch." - *Engineering Manager*

"It's been a blast! I can't thank you enough for all your hard work/help on the Atlas/OSM project. We will miss you madly." - *Product Owner*

"Thanks for rewriting my C++ in Java! It was great working with you in the short time we had together. All the best in the future." - *Senior Developer*

"Your passion for quality has made a big impact and will be missed. As will our enjoyable lunches. I hope to work with you again some day!" - *Lead Developer*

"Thanks for all your passion, wisdom, and determination to get it right for customers and your colleagues. Working with you over the last year or so has been an awesome experience. I've learnt a lot from you (including that you juggle and ride a unicycle). May your future bugs be elusive, your merge conflicts be minimal and your next endeavours be as smooth as a well executed deployment." - *Product Owner*

"It's been a long time working together and I'm going to miss our ability to be in-sync so often. I think we'll all miss your big contribution to the LPG team and to Retail Tech - and we'll miss the big personality too! Thanks for being such a huge part of our success. You've been a superstar to work with mate!" - *Lead Developer*

"Thanks for always pushing me to be the best and to do the best." - *Senior Developer*

"Working with you has been an awesome and new experience. I've never worked with someone as talented and professional as you. You're always learning, committed, and passionate about your work." - *Developer*

"Such a shame that we only worked together for a short time but I have definitely seen an amazing dev in what you've done in the LPG team and an awesome person with the way you communicate and encourage the people around you. Hoping our paths to cross again in the future!" - *Developer*