



Pieter OHearn

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Profile

I am an innovative and results-oriented Senior Engineer specialising in digital identity and fintech platforms, with extensive experience leading digital transformation initiatives within both government and private sectors. Currently as a Senior Full Stack Developer at Datakeeper, I architect secure and scalable identity solutions, implementing observability across ecosystems and leading development of a cross-platform mobile identity wallet. Previously at Service NSW, a major Australian digital government agency serving over eight million citizens, I spearheaded development of mobile and backend services including digital credential initiatives and grants as a service. With strong skills in React Native, Angular, Spring Boot, Node.js and privacy-by-design, I excel at delivering high-impact, user-centric solutions and collaborating across cross-functional teams.

Experience

DATAKEEPER | SENIOR FULL STACK DEVELOPER



Amsterdam, Netherlands | September 2024 - Present

Datakeeper is a digital identity wallet platform that enables users to securely store and share verifiable credentials with trusted parties.

- Design and development of the EUDI-compliant identity wallet SDK, enabling third parties to integrate European digital identity features across platforms.
- Introduced end-to-end observability across the ecosystem using OpenTelemetry, integrating Spring Boot and Node.js backends with distributed tracing, metrics and logs to improve monitoring and incident resolution.
- Designed and spearheaded architecture for a next-generation scraping service that securely retrieves source data for verifiable credentials, balancing data privacy, security and maintainability while ensuring adaptability to changing external websites.
- Collaborated with cross-functional teams to define secure, scalable backend architectures in both Spring (Java) and Node.js, aligning technical decisions with product and regulatory requirements.
- Drove initiatives to improve developer experience and maintainability through clean architecture, modular design and automated testing frameworks.

SERVICE NSW – MOBILE APP TEAM | SENIOR ENGINEER

Sydney, Australia | December 2023 – September 2024



Service NSW operates one of Australia's largest public digital platforms, enabling over eight million citizens to securely access a centralised digital platform that connects citizens to personalised government services, including the Digital Driver Licence and digital notifications.

- Specialised in React Native mobile development across Android and iOS, maintaining and improving an app serving five million active users.
- Developed a cross-team component library, ensuring accessibility (WCAG 2.2 AA) and design consistency across all product teams, in close collaboration with UX and design.
- Implemented new citizen-facing features, such as a secure digital notification inbox and native transaction experiences, improving engagement and reducing friction.
- Designed and built a scalable Grants Service, integrating backend APIs and mobile UI to help citizens apply for and track grants during crisis periods, increasing accessibility and reliability under high load.
- Partnered with designers, policy specialists, and engineers in a fast-moving, product-driven environment focused on impact, not process.

SERVICE NSW – DIGITAL NOTIFICATIONS PLATFORM | ENGINEER

March 2022 – December 2023

Worked on the notifications platform that enabled multiple agencies to securely communicate with millions of citizens through a unified messaging system.

- Re-architected a legacy monolith into microservices, introducing asynchronous queues and auto-scaling to ensure high availability during surges in message volume.
- Applied observability and performance monitoring tools, allowing the team to cut production incidents and improving API latency by 40-60%.
- Led a proof-of-concept database redesign, producing detailed ERDs and validating schema improvements through rigorous testing.
- Adopted the Backend-for-Frontend (BFF) pattern to deliver dynamically populated, data-driven frontend views that optimised the citizen experience.

SERVICE NSW – DIGITAL NOTIFICATIONS PLATFORM | JUNIOR ENGINEER

June 2021 – March 2022

- Developed and rigorously tested backend APIs for a high-traffic notifications platform, facilitating communication between state agencies and over 8 million NSW citizens.
- Supported the design and deployment of frontend pages, focusing on improving user experience and accessibility.

Education

BACHELOR OF ENGINEERING HONOURS (SOFTWARE)

The University of Sydney, 2022



- Gained comprehensive knowledge in software engineering principles, including software development lifecycle, systems engineering, and project management, equipping me with the skills to lead and manage complex software projects.
- Specialised in advanced topics such as algorithms, data structures, and software design patterns, enhancing my ability to develop efficient, maintainable, and scalable software solutions.

BACHELOR OF SCIENCE (COMPUTER SCIENCE)

The University of Sydney, 2022

- Acquired a solid foundation in computer science theory, including computational complexity, operating systems, and computer architecture, providing a deep understanding of how software interacts with hardware.
- Developed practical skills in programming languages (e.g., Java, Python, C), databases, and web technologies, enabling me to build robust and versatile applications across various platforms.

Skills

TECHNICAL SKILLS

Back End Development: Kotlin, Java (Spring Boot), Python, Node.js, Microservices, CI/CD

Front End Development: Angular, React.js, React Native, Ionic, Cordova, Redux, TypeScript, HTML, CSS

Identity & Security: Verifiable Credentials, Identity Wallets, OAuth2/OpenID Connect, European Digital Identity Wallets (EUDI)

Miscellaneous: Docker, Observability tools (*New Relic, Splunk, OpenTelemetry*), Software Design Patterns, MongoDB, SQL, Redis

SOFT SKILLS

Leadership: Can successfully guide teams, and drive projects to success through effective leadership and communication

Critical Thinking: Can evaluate situations, weigh options, and make informed decisions that contribute to project goals and efficient problem-solving

Agile Software Development practices: TDD, Pair Programming, CI/CD

Problem-Solving: Proficient in analysing complex challenges and devising effective solutions through critical thinking and innovative approaches