

# LI (PETER) QIAN

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## SUMMARY

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Full-stack TypeScript engineer experienced in Angular and Node.js ecosystems. Built design systems, form builders, and internal tooling that eliminate redundant work and streamline user workflows. Work comfortably across the stack—from translating Figma designs into production UIs to architecting backend systems and optimizing API performance. Integrated AI-assisted development workflows for faster exploration and better code quality.

## EXPERIENCE

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### Software Engineer

Jan 2024 – Present

*SciFlow GmbH*

*Berlin, Germany*

- Architected and built open-source JSON Schema form builder library as sole developer, translating Figma designs into production Angular components. Created reusable components now used across 30% of application UIs, eliminating 80% of custom form code while ensuring validation and accessibility compliance.
- Designed internal support tools enabling non-technical staff to resolve document export issues independently. Built real-time metadata editing UI for typography, formatting, and PDF configurations, reducing ticket resolution time by 40%.
- Optimized Express server performance by redesigning schema generation from runtime computation to build-time pre-compilation, reducing API response times by 90% (10s → 1s) for production deployments serving thousands of users.
- Redesigned document upload workflow with multi-step onboarding interface providing real-time feedback at each stage of processing: upload, validation, sanitization, extraction - which reduced support inquiries by a significant 80% (document-uploading and sanitization-related only) and improving user confidence during imports.
- Integrated AI-assisted development workflows using Codex for rapid proof-of-concept validation and technical exploration, reducing PoC development time and minimizing architectural dead-ends. Incorporated AI-powered code reviews that identified critical bugs before production, improving code quality and reducing post-deployment issues.

### Associate Software Engineer

Nov 2022 – Jan 2024

*Clario*

*Estenfeld, Bayern, Germany*

- Driven the creation of transformative libraries for large-scale **Angular** frontend application communication via **Webpack** where this transitioned point-to-point connections into a star network topology, streamlining service-to-service communications.
- Integration of Simple State management in **Angular** and RXJS, reducing reliance on external dependencies and application bundled size for deployment. Simple State management improved workflows from backend to frontend and fixed data-loading issues.
- Designed and developed simple state management in **Angular** using RXJS, reducing 50% of client calls and NGRX dependency, which simplified the architecture.
- Orchestrated frontend refactoring where I converted tightly coupled frontend components into high-quality, low-level modules which reduced code duplicated by 75% and allowed an ease of maintainability.
- Innovated by introducing test attributes to HTML components, streamlining testing processes, and dramatically reducing testing time by 30%.
- Pioneered the adoption of the repository pattern within a **.NET** Web API application, facilitating integration with Firestore and Entity Framework databases, and unlocking the capability to test services that were previously untestable.

### Graduate Application Software Engineer

Dec 2021 - Nov 2022

*Saluda Medical*

*Artamon, NSW, Australia*

- Delivered real-time language-switching settings within an Angular application through comprehensive internationalization, using Angular's in-built internationalization support. Provided the company with the capability of product distribution within the European Union.
- Represented comprehensive demos towards stakeholders and meticulously reviewed developments at the culmination of sprint iterations, ensuring rigorous compliance with business requirements and delivering top-notch results.
- Increased unit test coverage of the application by 10% through various mocking and stubbing strategies using Karma and Jasmine for Angular. Ensuring no regressions occur for critical UI logic for internationalization support.

## TECHNICAL SKILLS

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**Primary Stack:** TypeScript, Angular, Node.js (Express), Docker

**Frontend:** React, Solid.js, RxJS, Tailwind CSS, Angular Material, ShadCN

**Backend:** Python (FastAPI), REST, GraphQL, WebSockets

**State Management:** Redux/NGRX

**Data & Schemas:** PostgreSQL, MongoDB, JSON Schema

## EDUCATION

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**University of Wollongong**

*Bachelor of Computer Science (Software Engineer)*

Wollongong, NSW

*Jan 2019 – Dec 2021*

**University of Wollongong**

*Bachelor of Medical and Radiation Physics*

Wollongong, NSW

*Jan 2015 – Dec 2018*