Alex Nicolaidis

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Professional Experience

Dye and Durham (London; formerly Brisbane) – **Software Engineer**   **March 2023 – Present**

- Owned and delivered the migration of a legacy SOAP API integration to a modern JSON REST API built in C#/.NET on the UK Legal Search Platform, including third-party coordination and deployment.
- Contributed to the modernisation of Unity, Dye and Durham's flagship Canadian practice management solution, by redeveloping the user interface (UI) using Angular and the Material 3 design system. I co-built a custom UI kit to align with the evolving Material Design system and supported the upgrade from Angular 12 to 18, enhancing UI consistency and long-term maintainability of the monolithic codebase.
- Implemented a full-stack integration for a new payment provider within Unity, utilising Angular on the frontend and Java on the backend, resulting in a seamless in-app payment experience.
- Engineered a .NET-based microservice for Tasmania property searches as part of a National Property Search API, standardising response formats across jurisdictions and improving data reliability for downstream services.
- Mentored a peer development team in building CI/CD pipelines for a Salesforce application and developed internal GitHub Actions workflows to automate package publishing to JFrog Artifactory, reducing manual build effort, improving release reliability, and minimising errors.
- Contributed to scalable, microservice-based architecture across Search and Practice Management domains, helping the organisation build maintainable codebases.
- Collaborated with cross-functional teams including product managers, designers, QA engineers and other developers to deliver features across microservices and monolithic applications, with a customer first approach.

Robert Bird Group (Brisbane) – **Senior Structural Engineer**   **July 2016 - March 2023**

- Developed a desktop application with python for engineers to automate data generation from tower crane structural analysis models, helping reduce time for the team to output presentable data by ~67% and saving the company ~$35,000 / year.
- Developed a plugin with a graphical coding tool that produces tower crane lifting capacity charts and radius plans for engineering drawings. This Automated end-to-end data output process, reducing manual drafting time by 50% and saving ~$50,000 per year.
- Led a team of ~10 engineers and drafters on the construction phases, sequencing and temporary retention works on the Woolloongabba Underground Station on Queensland's largest transport infrastructure project, the $6.3bn Cross River Rail development.
- Managed and mentored a team of 5 engineers and drafters on tower crane installation service projects globally.
- Engineered a bespoke and unique construction sequencing solution for a tower crane to be installed and guy-cabled to the ground in order to decommission and dismantle a 233m transmission tower in Willoughby, Sydney.

Education and Qualifications

2022	**Software Engineering Immersive -** General Assembly
2022	**Chartered Professional Engineer of Australia** (CPEng, MIEAust)
2012 – 2016	**The University of Queensland – Bachelor of Engineering (Civil Extended Major) (Hons I)** GPA 6.67 out of 7.0, earnings Honors Class I Dean's Commendation for Academic Excellence (GPA of ≥6.67 out of 7)
2007 – 2011	**Brisbane Boys College** (high school) – **Queensland Certificate of Education** Graduated in the top 6% of c. 26k graduates (Overall Position OP2) Sportsman of the year, College Prefect, Football Captain and Volleyball Captain in graduating year.

Technical Skills

Languages: Javascript, Typescript, HTML, CSS, Python, C#, SQL
Development: Angular, Angular Material, .NET, OpenAPI, PostgreSQL, GitHub Actions
Other: Git, GitHub, Docker, Google Cloud Platform

Research Publications

2017	Conference paper: ***A comparison of perceived and measured visibility in a smoke-filled corridor*** Fire Safety Symposium (IFireSS 2017), January 2017 in Naples, Italy
2016	Conference paper: ***Thermally driven failure mode changes in bonded timber joints.*** World Conference on Timber Engineering, August 2016 in Vienna, Austria

Other Interests

Football, Basketball, Beach Volleyball, Golf, Tennis, Snowboarding, Cooking