

# Adam Bicknell, Full Stack React Engineer

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## Summary

Full-stack React engineer delivering secure web and desktop products with React and TypeScript, plus Python and PHP backends, cloud deployment on Azure and AWS, and strong ownership of CI/CD, infrastructure as code, identity, and data.

## Skills

**Languages:** TypeScript, JavaScript, Python, PHP, Java, C#, SQL, HTML, CSS

**Front end:** React, Redux, server-side rendering, Electron, Jest, React Testing Library, jQuery, SASS/CSS, Webpack, Vite, Socket.IO

**Back end:** Flask, FastAPI, Node.js, Laravel, Lumen, CakePHP, WordPress, REST APIs, Mako, serverless functions, SaaS scalability, machine learning model integration, IP protection and licensing

**Cloud and delivery:** Microsoft Azure, AWS, Docker, Terraform (IaC), CI/CD (Azure DevOps, GitLab, GitHub, Bitbucket, Buildkite), monitoring (Sentry, New Relic, Application Insights), IAM, secrets management, QA and UAT, production support and incident workflows

**Data and ops:** PostgreSQL, MySQL, MariaDB, MS SQL Server, MongoDB, Cosmos DB, DynamoDB, SQLAlchemy, migrations, Elasticsearch, performance tuning; Git, SVN; Windows Server domain admin, Linux; Bash, PowerShell; Agile/Scrum, ITIL, pair programming; SSO, OAuth2, SAML, SmartID, Azure AD; pen-testing remediation, ISO 27001 awareness, multi-tenant, legacy modernisation

## Experience

### Staff Software Engineer, Line Lab, Feb 2025 to Present

Built and deployed a proprietary solver platform with a Python and Flask backend, an Electron desktop client using JavaScript and Node.js, and a customer managed Azure deployment. Delivered Terraform-based Container Apps infrastructure with managed database, storage, and networking, plus licensing for IP protection and controlled use in private and government cloud environments under NDA.

### Key Achievements

- Delivered Terraform infrastructure for Azure Container Apps with VNet, Storage, and MySQL Flexible Server.
- Implemented licensing and monetisation.
- Designed V2C-based provisioning via a customer-hosted ACC to enable controlled private cloud execution while protecting IP.
- Built and maintained the Electron desktop client and installer, including Sentinel RTE install, pooled licensing via APIs and ACC handshakes, plus a perpetual licence path.
- Modernised the Python API and modelling codebase, adding static analysis and formatting (isort, black, flake8), automated tests.
- Delivered multi-currency support via an exchange rate conversion system.
- Worked in GitLab with feature branches, merge requests, code reviews and architecture discussions in a small agile team.

### Staff Software Engineer, Entertainment Partners, Jan 2022 to Aug 2024

Delivered features for a multi-region SaaS casting platform across a Python codebase and a React TypeScript front end with Mako server-side rendering. Shipped through structured QA and release processes including migrations and UAT, with production support via monitoring and incident workflows.

### Key Achievements

- Delivered SmartID single sign-on for a major US client, coordinating backend and frontend changes across multiple areas.
- Built React features in TypeScript, supported by Python services and Node.js components, including Mako-rendered pages.
- Worked with PostgreSQL via SQLAlchemy, delivering schema changes and migrations through Buildkite pipelines with Sentry monitoring.
- Shipped within a mature release process with mandatory QA, product review, and UAT validation across regions.

## **Fletchers Solicitors, Feb 2018 to Oct 2021**

### **Senior Full Stack Developer, Feb 2020 to Oct 2021**

Delivered secure, high-performance Azure SaaS solutions across React and Redux front ends, Azure AD authentication, Azure Functions, and core cloud services for data, monitoring, workflow automation, search, and network security, shipped via Azure DevOps with QA, UAT, and multi-region testing.

#### **Key Achievements**

- Built React and Redux UI and integrated Azure Active Directory authentication.
- Integrated machine learning models into Azure Functions with AI specialists and delivered end-to-end features using third-party SDKs.
- Owned monitoring, CDN, data, search, storage, workflow automation, and network security, delivered through Azure DevOps CI/CD.

### **Systems Developer, Feb 2018 to Feb 2020**

Delivered secure document access and improved platform security and data operations, building SOAP-based authentication, remediating pen-test findings, administering multiple databases, and producing BI reporting. Applied ITIL service design and change management and received multiple Player of the Week awards.

#### **Key Achievements**

- Designed and deployed a SOAP-based authentication system for secure legal document access.
- Remediated penetration test findings, strengthened access controls, and supported security audits.
- Administered and optimised MS SQL, MySQL, MariaDB, and PostgreSQL, and produced BI reporting to support decision-making.

## **Earlier Career**

- **Engage Solutions**, Full Stack Developer, Aug 2016 to Feb 2018
- **Clicky Media**, Full Stack Developer, Oct 2015 to Aug 2016
- **Ditto Music**, Full Stack Developer, Feb 2015 to Oct 2015
- **Paymentshield**, Application and Support Engineer, May 2014 to Feb 2015
- **Paymentshield**, Infrastructure Support Analyst, May 2005 to Aug 2006

More details can be found at <https://dev.bicknell.uk/experience>

## **Education**

### **University of Chester**

- BSc (Hons) Computer Science, 2:1, Sep 2011 to May 2014

## **Recognition**

- Multiple Player of the Week awards at Fletchers Solicitors.
- Shortlisted for a national award at Paymentshield with Towergate.

## **References**

Available on request.