

BENJAMIN C. TEHAN

Senior Full Stack Developer, Technical Lead & Architect.

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For a better experience see <https://purphoros.com/>

PROFESSIONAL EXPERIENCE

CURRENT

Principal Software Engineer · Full-time
Devforge Pty Ltd · [devforge.io](#)

 Oct 2024 – Current  Remote, Australia

Designing and building a suite of developer infrastructure and tooling from the ground up, written primarily in Rust.

- Anvil DB — architected a graph database platform in Rust: a Cypher engine with cost-based planning and Volcano execution, ACID transactions on MVCC, page-based storage with write-ahead logging and B+ tree indexes, and distributed clustering with replication and sharding.
- Auto-generated GraphQL API with subscriptions and first-party SDKs for Rust, TypeScript, Python, and Go; plus Hammer, the browser-based admin UI, with D3.js graph visualisation and query workbenches.
- Stencil, a Git-backed CMS and visual site builder with no database; Aegis, a header-driven HTTP forward proxy in Rust (axum, token auth, TLS hot-reload); and Foundry, a self-hosted team chat platform on an in-memory graph engine with a git event store and an embedded WebRTC SFU.

Principal Software Engineer · Contract - Ending soon
DTV Management

 Oct 2024 – Ending soon  Remote, Australia

Led the architecture and development of a scalable, secure gaming and community platform for a popular streamer and their affiliates.

- Built a real-time engagement platform for a streamer, their affiliates, and community — AFL/NRL tipping, tournaments, and games.
- Frontend in Remix.js on a serverless AWS architecture (Lambda, API Gateway) distributed globally behind CloudFront; backend in TypeScript with AWS CDK (IaC) and CI/CD via CodePipeline — Neo4j on EC2, DynamoDB, S3, Cognito.
- Suite of custom community games (Bingo, Poker, Roulette, HiLo, Blackjack, Duck Race, Head-to-Head) built with Three.js, OGL, and WGSL over WebGL, with game servers on Node.js.

Senior Full Stack Lead Developer / Architect

Bond Software · [bond.software](#)

 Aug 2022 – Oct 2024  Australia

Leaders in relationship, membership, association, union, and club-management & process-automation software.

- Full Stack Lead Developer — React (Remix) on web, React Native (Expo) on mobile.
- Lead Architect for SaaS platforms.
- DevOps and IaC with AWS CDK; infrastructure across DynamoDB, Cognito, API Gateway, CloudFront, Lambda, EventBridge, SES, Route 53, EC2, and S3; CI/CD via CodePipeline and GitHub Actions; DynamoDB + Neo4J data model.

Senior Web Developer

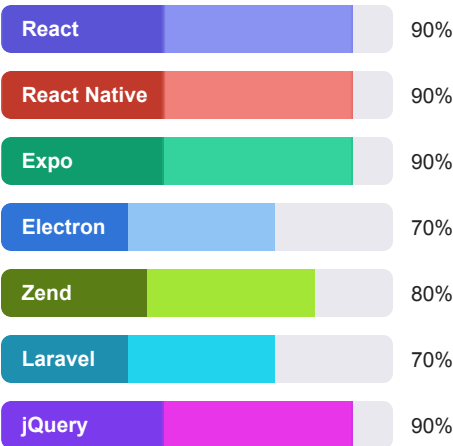
Vudoo · [vudoo.com](#)

 May 2022 – Sep 2022  Remote

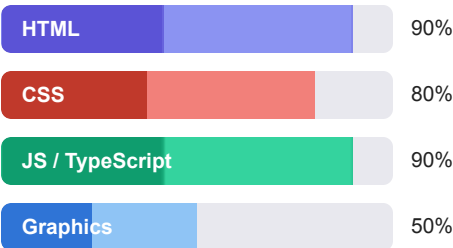
Vudoo is an interactive video platform. Stack: React (TypeScript), PHP.

- Built commerce functionality into the asset manager, letting users import products from Shopify/Magento into their dashboard.
- Added product selection for the shoppable-pin functionality in the interactive video suite.
- Integrated the Adyen payment gateway for clientele.
- Extended MFA to include SMS (PHP / AWS).

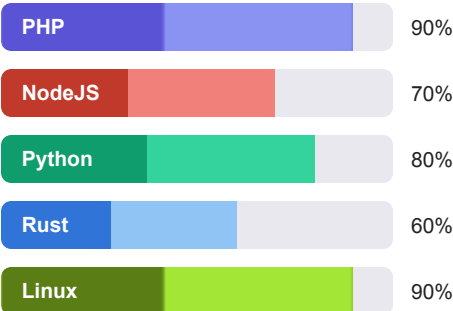
FRAMEWORKS / LIBRARIES



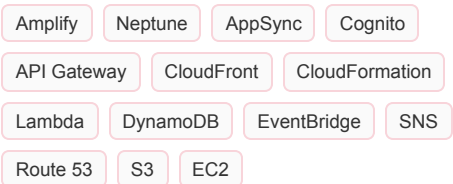
Front End



Back End



AWS



Chief Technology Officer and Co-Founder

Threeple · threeple.com

📅 Jul 2019 – Apr 2022 📍 Geelong, Australia

A recommendations platform with the goal of recommending anything from movies to users' skills.

- Successfully launched a mobile app for Apple and Android.
- Designed in Figma, built in React Native using Atomic Design.
- Designed and built a desktop administration app in React using Electron.
- Designed and built serverless infrastructure on AWS with Neo4J.

Chief Technology Officer

Localised · localised.com.au

📅 Jun 2018 – Oct 2019 📍 Geelong, Australia

A fully-hosted platform helping local governments and business groups build dynamic B2B and jobs networks — a modern economic-development tool.

- Expanded the Localised platform from a single LGA to 35+, spanning hundreds of local councils.
- Oversaw a re-development letting non-technical staff self-manage the service offering, and re-launched it with a full import of existing customer data.
- Established the company's technical vision and led all aspects of technological development.
- Owned resolution of production issues affecting software integrity or customers.

Senior Applications Programmer · eSolutions

Deakin University · deakin.edu.au

📅 Apr 2007 – Jul 2018 📍 Geelong, Australia

Deakin University is ranked among the top 1% of universities in the world, with 65k+ students and 4k+ staff.

- Subject-matter expert (SME) for learning environments, PHP, and Atlassian.
- Key in software selection, including the Enterprise Service Bus (Mule ESB).
- Technical lead for high-profile projects — Desire2Learn, DeakinSync, and the initial Deakin Genie. DeakinSync won CIO of the Year; Deakin Genie won best education IT project of the year.
- Built the proof of concept for DeakinSync, and single sign-on bridging software still in use today since 2007.
- Built lecture-recording software driven by scheduled room bookings, and resource-allocation software based on users' skills and passions.

Manager

Fishbone Solutions

📅 Jan 2005 – Dec 2006 📍 Singapore

Unix System Administrator

Simulation Software & Technology (S2T)

📅 Jan 2005 – Mar 2007 📍 Singapore

Solaris, Linux, C programming, Perl, and database replication.

Team Leader — Solution Centre Engineer · Contractor

Sun Microsystems

📅 Jan 2003 – Dec 2004 📍 Chai Chee Technopark, Singapore

Web Developer & Linux System Administrator

DV9 International

📅 Jan 2002 – Dec 2002 📍 Yishun, Singapore

PHP programming and Linux system administration.

Technical Specialist · Research & Development

Sakon Group

📅 Dec 1999 – Dec 2001 📍 Bugis, Singapore

Linux system administration (Cobalt RAQ), product research and testing.

Databases



Tools & Other



Selected Projects

Anvil DB

Graph database in Rust — Cypher, GraphQL, plugin system, MVCC storage engine.

anvildb.com

Hammer

Web management UI for Anvil DB — React Router 7, D3.js graph visualization.

anvildb.com/playground

Stencil

Git-backed headless CMS & visual site builder — React Router 7, no database.

Aegis

Header-driven HTTP forward proxy in Rust — axum, token auth, TLS hot-reload.

github.com/devforge-io/aegis

Foundry

Self-hosted team chat in Rust — graph engine, git event store, WebRTC SFU.

github.com/devforge-io/foundry