

Software engineer & aspiring software architect

Pious Alpha

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Software engineer with three-plus years in banking and financial services at Accenture. I build and own the SLA-monitoring engine every client-facing department of a bank depends on, and co-authored its data contract. I design systems, both kinds: software architecture and UI design systems. In the evenings I work through a full computer science curriculum (OSSU), toward a software architect role.

Experience

Software engineer, Accenture

Jun 2023 – present · Brussels, Belgium

- Built and own the SLA-monitoring engine that every client-facing department of a bank depends on: it tracks over 30,000 SLAs in settlement and regulatory mail workflows that had gone untracked because of the volume.
- Designed it as declarative trackers that run unattended: each one defines which mail it detects, how that mail is classified and which dates start and stop the SLA clock.
- The unit is a conversation thread, not a mail: two-level deduplication keeps replies and forwards from adding records, and the engine fails toward a possible duplicate, never a silent loss.
- Co-authored the SLA log's data contract: one record per thread, what the start and end dates mean, and the rules that keep the numbers honest for forecasting and reconciliation.
- Engineer on the migration of 850+ ASP/VBScript applications to React and Java, in the team that kept the legacy systems running for 200+ bank users with zero downtime.
- Part of the team that defined the target stack (React, Spring Boot, DRL-based mail routing) and the API contracts that became the standard for the migrated services.
- Took part in code reviews across teams, as post-release defects fell by an estimated 25%, and helped set the unit-testing standards (JUnit, Jest) that took coverage from near zero to 60%+.
- Helped refactor the internal codebase, cutting average feature implementation time by about 30%.
- Co-wrote the component-level architecture documentation that 3+ teams use.
- Also build software, including UI design systems.

Parking Counter app

Jan 2024 – Apr 2026

- Owned the architecture and development of a React app used across 20+ bank locations.
- Designed its state management, location-based routing and caching layer, weighing client-side caching (speed) against server-side validation (accuracy).
- Its CRUD data flow and API patterns became the reference for similar internal tools.

Platform engineering & DevOps

personal and professional

- Terraform to manage GitHub organizations as code.
- Custom GitHub Apps for governance and workflow enforcement.
- User and team onboarding through Microsoft Entra ID (SAML).
- Repository templates with GitHub Actions CI/CD and CODEOWNERS.
- Rulesets from security and release policies: code freeze, standard pipelines, peer review, clear ownership.

Ventures

Skyll®

Founder

My freelance practice focuses on web design and development. It also built this site.

Ponderless

Founder

Micro-learning for the whole path from thinking to decision. A gym for judgment, which is a muscle most of us skip.

Skills

Languages & frameworks

Java, Spring Boot, React, Astro, JavaScript/TypeScript

Architecture

System design, API design & contracts, Data contracts, Component architecture, State management, Caching, Migration planning, Architecture documentation, Design systems

Quality

Code review, Unit testing (JUnit, Jest), Refactoring

Platform & DevOps

Terraform, GitHub Actions CI/CD, GitHub Apps, Rulesets & CODEOWNERS, Git, Microsoft Entra ID (SAML; formerly Azure AD)

Education

Computer science (self-directed), OSSU

Mar 2025 – present

Working through a full CS curriculum in the evenings: algorithms, data structures, systems programming, computer and software architecture.

Junior Software Developer training, BeCode

Dec 2022 – Jun 2023

Certificates: HTML5/CSS3 & JavaScript (Web Development); Java & Software Development.

ASO Science-Mathematics, Koninklijk Atheneum Antwerpen

Sep 2012 – Jun 2018

Certification

AWS Certified Cloud Practitioner

Amazon Web Services · 2024 · valid to 2027

Languages

English C2

Dutch C1

French A2

Spanish A2

Interests

Philosophy and psychology, non-fiction, science and technology, music (jazz, and recording my own in the studio), strength training, Brazilian jiu-jitsu and freestyle wrestling.

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