

# Brad Gooseman

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## EXPERIENCE

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### Lead Software Engineer

Sep. 2024 – Present

*SECOM Plc*

- Technical lead responsible for architecting and delivering enterprise internal systems to replace fragmented, spreadsheet-driven business processes.
- Design and develop scalable backend services to ingest, transform, and synchronise operational data across on-premises and third-party systems.
- Built a centralised platform automating core business workflows and mission-critical document generation across the organisation.
- Own end-to-end system architecture, deployment strategy, and operational reliability across new and legacy-integrated services.
- Lead phased modernisation of legacy platforms into service-based systems while ensuring uninterrupted business continuity.

### Personal Project

Mar. 2024 – Jan. 2026

*Gnome Trader*

- Designed and built an automated crypto-based settlement and delivery system integrating blockchain transactions with real-time backend services.
- Implemented Python services using FastAPI, WebSockets, Redis, and PostgreSQL to coordinate event-driven workflows and stateful task execution.
- Built reconciliation logic to verify on-chain Solana transactions before triggering downstream fulfilment and confirmation flows.
- Reduced end-to-end delivery latency from approximately one hour of manual processing to sub-20-second automated execution.
- Engineered the system to handle concurrent orders, partial failures, and retry-safe processing across distributed components.
- Focused on correctness, idempotency, and fault tolerance to ensure reliable processing under network and dependency failures.

### Systems Engineer

Jan. 2024 – Sep. 2024

*British Steel*

- Worked on operational systems supporting logistics, asset tracking, and financial reporting across large-scale industrial operations.
- Developed and maintained data pipelines combining GPS telemetry, on-site sensor data, and legacy systems to support real-time decision-making.
- Interfaced with and maintained legacy Fortran-based systems critical to ongoing production and reporting workflows.
- Built and validated datasets used for cost tracking, efficiency analysis, and operational optimisation.

### Offshore Wind Turbine Engineer

Sep. 2015 – May 2018

*E.ON Energy*

- Hands-on maintenance role on offshore wind turbines in a safety-critical industrial environment, prior to transitioning into software engineering.

## EDUCATION

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### University of Hull

*Bachelor's in Robotics and Mechatronics (2:1)*

*Sep. 2019 – May 2022*

## CORE TECHNICAL FOCUS

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**Backend Systems:** Python services, FastAPI, async workflows, API integration

**Frontend Integration:** React, JavaScript, TypeScript, Phantom Wallet

**Data & State Management:** PostgreSQL, reconciliation logic, idempotent processing

**Real-Time Systems:** WebSockets, event-driven architectures, concurrent task coordination

**Cloud Infrastructure:** Google Cloud (Cloud Run, managed services, virtual machines), pulumi

**Crypto Infrastructure:** Solana transactions, on-chain verification, settlement flows