

# Cameron Smart

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## PROFILE

Career-driven Software Engineer with proven experience delivering enterprise-scale solutions in fintech, including predictive maintenance systems and global IoT deployments. Skilled in Python, C# .NET, cloud infrastructure (Azure, Kubernetes), DevOps automation, and Test-Driven Development (TDD). Demonstrated ability to lead system architecture design, streamline development processes, and deliver reliable, scalable solutions. PMI-CAPM certified, with a strong focus on collaboration, innovation, and continuous improvement. Actively engages in STEM outreach, mentorship, and diversity initiatives, reflecting a commitment to using technology to create positive impact.

## SKILLS

- **Languages:** Python, C#, C++, JavaScript (React/NodeJS), PowerShell, Batch
- **DevOps & Cloud:** Azure, Kubernetes, CI/CD (GitHub Actions, Jenkins, Sonar), Docker
- **Tools & Processes:** Jira, Confluence, Git, Agile/Scrum, TDD, Architecture Design
- **Certifications:** PMI CAPM, MHFA Mental Health Champion

## EXPERIENCE

SOFTWARE ENGINEER III, NCR ATLEOS – MAY 2025 - CURRENT, DUNDEE

- Continued service within the Smart Services team, expanding my responsibilities:
  - **Partnered with TeamViewer** to deliver augmented reality-based ATM servicing, enabling on-demand remote repair support for customer engineers.
  - **Migrated infrastructure from VMs to Azure Kubernetes Service (AKS)**, embedding CI/CD pipelines and aligning with industry best practices in containerisation.
  - **Redesigned and rebuilt legacy systems to leverage cloud platforms**, rewriting Python modules with a Test-Driven Development (TDD) approach.

SOFTWARE ENGINEER II, NCR ATLEOS – JANUARY 2025 - MAY 2025, DUNDEE

- Contributing to the Smart Services team with responsibilities including:
  - **Developed enterprise-grade Python applications** to analyse ATM event data across the global NCR Atleos network, enabling predictive maintenance servicing.
  - **Owned and redesigned the team's system architecture**, conducting a full review and implementing a modernised design.
  - **Migrated infrastructure from legacy on-premises servers to a cloud-based CI/CD environment**, introducing source control, automated testing, static analysis, and automated deployments.
- Additional contributions beyond core responsibilities include:
  - **STEM Volunteer & Youth Role Model.** Teaching primary school children STEM subjects locally and served as a national STEM Youth Role Model with the Smallpiece Trust's *Get into STEM* campaign.
  - **Diversity & Inclusion Advocate.** Active member of NCR Atleos Dundee Diversity Culture Crew, organising monthly educational sessions on topics such as neurodiversity.
  - **Project Management Training.** Completed formal training and achieved the PMI Certified Associate in Project Management (CAPM) certification.

#### SOFTWARE ENGINEER I, NCR ATLEOS – JULY 2023 - JANUARY 2025, DUNDEE

- Contributed to the Software Integration, Test Automation, and OEM team, with responsibilities including:
  - **Developed and maintained the NCR Atleos IoT Enterprise OEM Windows image**, deployed across 285,000+ ATMs worldwide.
  - **Built integration and testing tools** for new software components and hardware devices, streamlining validation processes.
  - **Deployed and managed cloud solutions on Azure Kubernetes Service (AKS)**, including asset management, knowledge databases, data aggregation, and IoT device management.
  - **Created and supported quality assurance tools** for the Software Configuration Management team, improving reliability of software deliveries.
  - **Resolved high-priority escalations** for OEM Windows image issues, collaborating directly with banks' technology teams and Microsoft.
- Proactively sought opportunities to enhance team processes and product quality, including:
  - **Introduced a new development process** that streamlined workflows and improved team communication.
  - **Automated the OEM Windows Image build process** using GitHub Workflows, Jenkins, and dedicated build servers, eliminating manual effort and saving **hundreds of development hours annually**.
  - **Standardised lab environments across Dundee and Hyderabad**, creating a system to bulk re-image and configure ATMs, ensuring consistency and reducing setup time.

#### SOFTWARE RESEARCH ASSISTANT, ABERTAY UNIVERSITY – NOV 2022 - JUNE 2023, DUNDEE

- Developed a gamified platform to promote proactive vulnerability reporting and improve system security awareness among students.
  - **Developed a gamified bug bounty application** for students to identify and report vulnerabilities in University systems.
  - **Selected for the project** based on strong web development performance and interest in user-centred interaction design.
  - **Built with React, Node.js, and MongoDB**, incorporating gamification elements such as experience points, leaderboards, awards, and social features to increase engagement.
  - **Presented monthly updates to stakeholders** and contributed to a forthcoming research paper (expected 2024).

#### EDUCATION

- BSc (Hons) Computing, Abertay University – Sept 2019 - May 2023, Dundee

#### AWARDS AND CERTIFICATIONS

- Project Management Institute Certified Associate in Project Management (PMI CAPM) – earned January 2025
- Project Management Institute Agile Certified Practitioner (PMI ACP) - expected July 2025