Arbin Bulaybulay

Staff Engineer · Senior Full-Stack Software Engineer · Python & Django · AI Solutions

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PROFESSIONAL SUMMARY

Staff Engineer and Senior Full-Stack Software Engineer with 20 years of professional IT experience across software engineering, system development, process automation and team leadership. Deep expertise in Python (20 yrs), Django (14 yrs), MySQL (15 yrs), Flask (3 yrs), REST API design, AWS deployment and AI-powered applications, with a track record of leading and mentoring engineering teams and cutting operating cost through automation. Certified Six Sigma Green Belt. Currently a Staff Engineer at Innodata, applying architecture, mentoring and business-aligned technical strategy to deliver scalable software.

TECHNICAL SKILLS

Backend Engineering	Python (20 yrs), Django (14 yrs), Flask (3 yrs), FastAPI (3 yrs), Django REST Framework (3 yrs), Bottle, Node.js, REST & SOAP web services, Postman & Swagger UI, REST API development, Backend architecture, Microservices concepts, Application optimization
Frontend Engineering	JavaScript (5 yrs), HTML5, CSS3, Tailwind CSS, Responsive web development, API integration, Full-stack application development
Databases	MySQL (15 yrs), PostgreSQL, MS SQL, SQLite, Database design, Query optimization, Indexing & performance tuning, Data migration
Cloud & DevOps	AWS SQS (3 yrs), AWS EC2, AWS ECS, Docker, Jenkins, Azure DevOps, CI/CD pipelines, AWS S3, Azure, Google Cloud, Linux & Windows environments, Gunicorn, Nginx, Apache
AI & Automation	OpenAI API integration, Large Language Models (LLMs), AI-powered document processing, PaddleOCR, PDF processing, XML processing, Automated data extraction, Intelligent workflow automation, Microsoft Power Automate
Engineering Practice	Agile (Scrum, XP), SDLC, Object-Oriented Analysis & Design, Code review, Testing & Selenium, Git, Mercurial, SVN, Technical documentation, Six Sigma Green Belt, Team leadership & mentoring, Project management (Asana, Assembla)

WORK EXPERIENCE

Staff Engineer, Innodata

July 2026 — Present

Staff-level engineering role at Innodata, following four years as a Senior Software Engineer with the company.

Senior Software Engineer, Innodata

May 2022 — July 2026

- Design and develop efficient software systems using optimal architecture and design principles.
- Identify, prioritize and execute tasks throughout the Software Development Life Cycle (SDLC).
- Validate, test and debug software systems to ensure high-quality deliverables.
- Collaborate with cross-functional teams to integrate RESTful APIs and third-party services.

Senior Programmer/Analyst, Cabrera Business Solutions

February 2019 — May 2022

- Designed and implemented system improvements to support business needs and enhance operational efficiency.
- Developed hybrid applications integrated with managed-services tools to streamline service delivery.
- Delivered best-practice solutions using current technologies and RESTful APIs.
- Created tools and automation scripts to support DevOps processes.
- Applied SDLC best practices, internal testing and code reviews.

Technical Lead, SPi Global

June 2012 — February 2019

- Led a team of software engineers to achieve SLAs and operational efficiency for external clients.
- Conducted requirement assessments, assigned tasks and monitored progress for timely delivery.
- Planned, organized and controlled team workloads and activities.
- Developed applications to technical specifications and design requirements.
- Resolved technical issues and ensured solutions aligned with client expectations.

Consultant / Software Engineer (Freelance), Bixly

September 2013 — September 2014

- Developed and maintained Python/Django web applications for clients.
- Performed application upgrades and migrations and provided ongoing support.
- Delivered well-documented code to meet client requirements.

Software Engineer, SPi Global

June 2010 — June 2012

- Developed software systems to enhance operational efficiency for production groups and external clients.
- Managed application migration, setup and configuration of Workflow Management Systems (WMS).
- Designed and implemented the WMS application architecture using Zope and Python.
- Acted as technical lead for 3 application support staff and 4 junior software engineers.

Head, Data Processing and Logistics Department, SPi Technologies

March 2006 — June 2010

- Managed a team of 30+ data processing controllers and logistics staff.

- Oversaw electronic data-processing workflows, ensuring compliance with SLAs and turnaround times.
- Mentored, planned and organized team activities to meet production goals.
- Designed, coded and tested projects prior to implementation.
- Led continuous-improvement initiatives and authored Production's Risk Treatment Plan and Business Continuity Plan.
- Designed, developed and documented four cost-saving Six Sigma project initiatives.

Team Lead, Data Processing and Logistics, SPi Technologies December 2005 — March 2006

- Monitored processes, evaluated staff performance and recommended process enhancements.
- Designed and coded in-house applications to improve operational efficiency.

Data Processing Controller, SPi Technologies October 2004 — December 2005

- Handled FTP file transfers and wrote scripts to automate processes.

Database Programmer, Forever Living Products, Dumaguete, Philippines March 2000 — June 2003

- Developed a database program for member management.
- Supported desktop publishing activities.

SELECTED PROJECTS

Enterprise Document Processing Automation `(ACTIVE)` — Professional work on automated pipelines that extract, transform, validate and quality-check document content. Described at a high level; no confidential details or proprietary code are shown.

PropTrust `(PROTOTYPE)` — An AI-powered real estate technology platform that brings language models into property valuation and reporting workflows.

HomesList.ph `(ACTIVE)` — A real estate digital platform focused on property discovery and marketing — condos, houses and lots in Cebu, Bacolod, Bohol and Dumaguete.

EDUCATION

Bachelor of Science in Real Estate Management, Lyceum of Alabang (2021 — 2022)

Master of Science in Information Technology, Negros Oriental State University (2006 — 2007)

Bachelor of Science in Computer Science, University of San Jose – Recoletos, Cebu City (1993 — 1997)

CERTIFICATIONS & LICENSES

Six Sigma Green Belt Certification, SPi Technologies (2007)

Licensed Real Estate Broker

Licensed Real Estate Appraiser

PROFESSIONAL ACCOMPLISHMENTS

- Led and mentored teams of 30+ data processing, logistics and engineering staff to meet client SLAs and turnaround targets.
- Designed, developed and documented four cost-saving Six Sigma project initiatives, reducing operating expense by eliminating non-value-added work through automation.
- Built web-based archiving and indexing systems for electronic data and printed materials.
- Authored Production's Risk Treatment Plan and Business Continuity Plan.
- Designed the Workflow Management System (WMS) architecture in Zope and Python and managed the WMS and in-house application migration.
- Integrated OpenAI into software systems and deployed services on AWS ECS/EC2 with Docker and CI/CD.

COMMUNITY & STARTUPS

- SugarPy (Python community in Dumaguete City and Negros Island) — Founder / Organizer
- Pysoldev (Python/Django web development shop) — Founder
- Jobscited (2nd Place, IdeaSpace Bootcamp Dumaguete) — Co-Founder
- QGen (Question Generator app, StartupWeekend champion) — Co-Founder
- SkillsInfinite — Python Software Programming Instructor

RECOGNITIONS & CONFERENCES

- Innovation / Process Improvement Idea — SPi (April 2010)
- Backup Restoration and Archiving Initiative — SPi (March 2009)
- CIT Best Practices Forum — SPi (December 2007)
- PyCon Asia-Pacific — Makati, Philippines (February 2019)
- PyCon Philippines — UP Cebu (February 2016)
- PyCon Philippines — La Salle, Manila (February 2014)
- PyCon Asia-Pacific — Singapore (June 2011)

TECHNICAL COMPETENCIES

System architecture & design (OOAD) · Backend & API engineering · Database design & optimization · Cloud deployment & CI/CD · AI/LLM integration · Team leadership & mentoring · Process improvement (Six Sigma) · Risk management & business continuity