

Pravat Adhikari

Software Development | Data Analytics | FinTech | Systems & Security
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SUMMARY

Computer Science senior (Fall 2026, Minor: Accounting) with 2+ years of professional experience building ETL/ELT data pipelines, automating workflows, and developing analytics solutions in fintech environments. Skilled in Python, Java, C++, SQL, API integration, Bash/PowerShell, Linux, and Agile workflows, with a strong financial domain background. Seeking an internship in software engineering or data analytics.

EXPERIENCE

Research Assistant

Jan 2023 – May 2023

Global Policy Horizon Research Lab · Webster University | Webster Groves, MO

- Contributed to international policy research initiatives involving structured data collection, literature review, and analytical reporting.
- Applied Python and Excel data pipelines to support lab outputs, producing structured research briefs for academic dissemination.

Junior Data Analyst

Sept 2021 – Dec 2022

Nabil Bank Ltd — Commercial Bank (60+ branches) | Kathmandu, Nepal

- Engineered automated data pipelines using Python (pandas, NumPy) and SQL to extract, clean, and consolidate transactional records from Oracle and MySQL — cutting report generation from hours to minutes in a live fintech environment.
- Developed internal web service interfaces to expose reporting data to downstream banking applications, enabling structured data access for non-technical stakeholders.
- Developed interactive Tableau dashboards to monitor operational KPIs in real time, reducing ad hoc management reporting requests by ~30%.
- Wrote and optimized complex SQL queries across large relational databases for extraction, trend analysis, and anomaly detection on financial transactions.
- Applied linear and logistic regression models on operational datasets to identify financial trends and support quarterly planning decisions.
- Administered Linux-hosted Oracle and MySQL database instances; leveraged TCP/IP, DNS, and Wireshark for secure system and network operations.
- Produced UML diagrams and process flow documentation, standardizing team workflows and reducing analyst onboarding time.

Software & Financial Operations Associate

June 2020 – Aug 2021

SD Miracle Edu Consultancy | Kathmandu, Nepal

- Designed and maintained internal web dashboards (HTML, CSS, JavaScript) to track 100+ active client accounts, eliminating manual status update requests.
- Automated financial and operational workflows using Python (OOP), Java, and Bash/PowerShell scripting — reducing manual data entry and improving processing efficiency across client account management.
- Managed and deployed relational databases (MySQL, MS Access, Oracle) with normalization, validation, and integrity checks across virtualized Windows and Linux environments.
- Coordinated Agile sprint cycles and project timelines using Jira, ensuring on-time delivery across a lean cross-functional team.
- Tracked operational performance via Tableau and Power BI; delivered monthly financial summaries through advanced Excel reports.

Mathematics & Accounting Tutor

Aug 2024 – Dec 2024

Northern Oklahoma College | Tonkawa, OK

- Delivered individual and group tutoring sessions in algebra, calculus, statistics, and financial/managerial accounting.
- Maintained student progress tracking in Excel, providing data-driven updates to faculty advisors for early intervention.
- Created supplemental worksheets, practice problems, and reference guides improving student exam readiness and self-sufficiency.

PROJECTS

Expense Tracker with Visualization | Python, OOP, pandas, Matplotlib, File I/O | github.com/adhocpra

CLI expense tracker using OOP design patterns, CSV persistence, and Matplotlib data visualizations.

REST API — Finance Endpoints | Python, FastAPI, Pydantic, REST | github.com/adhocpra

FastAPI CRUD endpoints with Pydantic validation and OOP service-layer separation.

Personal Portfolio Website | HTML, CSS, JavaScript, GitHub Pages | github.com/adhocpra

Responsive multi-page portfolio deployed to GitHub Pages showcasing projects and experience.

EDUCATION

Bachelor of Science, Computer Science • Minor: Accounting

Expected Fall 2026

Northwestern Oklahoma State University (NWOSU), Alva, OK

Associate of Science, Computer Science

Northern Oklahoma College, Tonkawa, OK GPA: 3.9 / 4.0

D.A.V. College of Science

Lalitpur, Nepal GPA: 3.78 / 4.0

TECHNICAL SKILLS

Languages: Python (OOP, pandas, NumPy, Matplotlib), Java, C++, JavaScript, SQL, HTML, CSS

APIs & Frameworks: REST API design, FastAPI, Pydantic, HTTP methods, JSON, Postman

Scripting & Shell: Bash (Linux/macOS), PowerShell (Windows) — automation, task scheduling, system scripting

Cloud & ML: AWS fundamentals (EC2, S3, IAM — conceptual); Machine Learning exposure: supervised/unsupervised learning, regression, classification (scikit-learn tutorials)

Data Science & Math: Data Structures & Algorithms, Linear Algebra, Statistical Analysis, Regression Modeling

Visualization & BI: Tableau, Power BI, Matplotlib, Excel (Advanced — pivot tables, VLOOKUP, dashboards)

Databases: MySQL, Oracle, MS Access — query optimization, normalization, multi-source integration

Systems & Infra: Linux (Ubuntu/CLI), Windows Server, macOS, VMware/VirtualBox virtualization, TCP/IP, DNS, HTTP, Wireshark, CCNA fundamentals

Security: Ethical hacking concepts, network reconnaissance, vulnerability assessment, CIA triad principles

Project Management: Agile/Scrum methodology, Jira (sprint planning, backlog management, task tracking), cross-functional team coordination

FinTech Domain: Banking operations, transactional data analysis, financial reporting, KPI dashboards, regulatory compliance awareness

Tools: Git, GitHub, VS Code, SharePoint, LucidChart, Diagrams.net, Microsoft Office Suite