CHINMAYA PRADHAN

BACKEND ENGINEER | CLOUD SOLUTIONS ARCHITECT

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TECHNICAL SKILLS

- **Programming Languages**: Python, GoLang, Java (basic), C/C++
- **Backend Development:** Python (FastAPI, Django, Django REST Framework), RESTful APIs, Microservices, SQLAlchemy, Alembic
- **Frontend Development:** HTML, CSS, JavaScript, Vue.js, React.js, Bootstrap, Tailwind CSS, Angular (basic), Responsive UI Design
- **Databases:** MySQL, OracleSQL, PostgreSQL, MongoDB, Firebase, SQLite
- **DevOps & Cloud Platforms:** AWS (EC2, IAM, Lambda, CloudWatch), GCP, Azure, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Ansible, CI/CD Pipelines, NGINX, Load Balancers
- **Version Control & Tools:** Git, GitHub, GitLab, Bitbucket, JIRA, Bash Scripting, Linux/Unix
- **Software Engineering Concepts:** OOP, Data Structures & Algorithms, Agile Methodology, Test-Driven Development (TDD), Code Reviews
- **Testing & Quality:** Pytest, Postman, Swagger (OpenAPI)

WORK EXPERIENCE

Aptus Data Labs – Software Engineer Intern (Jan 2025 - June 2025)

- **AptPlan (Business Planning & Forecasting Tool):**
  - Achieved a significant boost in business forecasting accuracy, improving it by 18%, as measured by better alignment with actual sales trends, by developing and fine-tuning data models that incorporated seasonal, regional, and customer behavior parameters.
  - Ensured continuous service delivery and zero-downtime releases by collaborating with the backend team to integrate updated forecasting models using deployment pipelines and automated version control.

- **AptChat (AI-Enhanced Customer Support Chatbot):**
  - Increased system responsiveness and user satisfaction by 30%, as reflected by faster query resolutions and smoother interactions, by optimizing complex database queries and backend API calls for performance.
  - Elevated customer interaction quality by integrating Generative AI and Agentic AI principles into chatbot workflows, leveraging LLMs to deliver personalized and context-aware responses.
  - Contributed to scalability and reliability by designing and deploying backend microservices capable of handling high volumes of real-time support traffic.

PROJECTS

1. **Microfinance Peer-to-Peer Lending Platform (** Document Link: Microfinance Lending Platform **)**

   Technologies Used: *FastAPI, React.js, PostgreSQL, Scikit-learn, Kubernetes*
   - Developed a scalable P2P lending system to connect rural entrepreneurs with micro-lenders, integrating AI-based credit scoring using alternative data like mobile payments and utility bills.
   - Built responsive borrower-lender dashboards using React.js and FastAPI, supporting loan listings, bidding, repayments, and impact visualizations.
   - Deployed via Kubernetes with PostgreSQL-backed data management to ensure secure, compliant, and high-performance financial transactions at scale.

2. **Personal Finance and Investment Education App (** Document Link: Finance Education App **)**

   Technologies Used: *FastAPI, React.js, PostgreSQL, Python (Pandas, NumPy), Kubernetes*
   - Built an app delivering personalized budgeting tools, micro-investment options, and gamified financial education for low-income users, promoting financial literacy and wealth-building.
   - Implemented Python-based algorithms for budget analysis and personalized savings advice, integrated via FastAPI APIs with PostgreSQL-backed data management.
   - Designed an interactive React.js UI with dashboards, investment trackers, and quizzes, deployed on Kubernetes for scalability and real-time data handling.

3. **Farmer's Fast Loan Settlement System Using Blockchain and Web3 (** Document Link: Loan Settlement System **)**

   Technologies Used: *Solidity, HardHat, Node.js, Vue.js, Ethereum, MetaMask, IPFS*
   - Developed a decentralized platform to fast-track agricultural loan settlements using Ethereum smart contracts, ensuring tamper-proof, timestamped workflows across farmers, officials, and banks.
   - Integrated Web3 authentication via MetaMask and implemented role-based access control for multi-party verification, eliminating middlemen and reducing fraud.
   - Deployed smart contracts on Ethereum with a Vue.js frontend and Node.js backend, enabling transparent, auditable loan approval processes tailored for disaster-affected rural communities.

EDUCATION

Silicon University, Bhubaneswar, Odisha, India
B.Tech in Computer Science and Engineering (2021-2025)
CGPA: 9.22