

# Pallab Kayal

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## SUMMARY

Passionate full-stack software developer with 6+ years of experience in API development, microservices architecture, cloud computing, and data modeling. Known for a relentless drive to optimize code, building scalable systems with proven expertise in performance tuning, optimizing costs, and ensuring system reliability. Always curious, always learning because there's always a better way.

## SKILLS

**Backend Languages:** Node.js, Golang, C#, Python

**Backend Frameworks:** Express.js, Gin (Golang), ASP.NET Core, FastAPI

**Databases:** PostgreSQL, MongoDB, Redis

**Cloud:** AWS, Digital Ocean, Cloudflare, Docker, Kubernetes

**Tools & Practices:** Git, Github/BitBucket, Github Actions, Jira, Unit Testing, Code Review

**Soft Skills:** Problem-solving, Effective Communication, Team Collaboration, Time Management

## WORK EXPERIENCE

### Webskitters Solutions Private Limited

Aug 2024 - Present

#### Senior Software Developer

- Engineered robust, scalable APIs for an analytics platform used by golfers, ensuring 99.9% uptime and seamless handling of 5K+ daily requests.
- Spearheaded serverless deployment using AWS Lambda, reducing operational costs by 20% and improving performance benchmarks.

### Ogma IT Conceptions Pvt Ltd

Aug 2021 - Jan 2024

#### Senior Software Developer

- Directed the design and development of a high-traffic live-streaming platform, accommodating 500k+ daily users with zero downtime.
- Transitioned a monolithic architecture to microservices using Node.js and Golang, enhancing system response times by 50% and boosting development agility.
- Conducted comprehensive code reviews and introduced best practices, resulting in a 30% reduction in technical debt.

### A1 Future

Feb 2021 - Aug 2021

#### Software Developer

- Modularized the existing SDK, improving usability for external consumers and reducing integration complexity by 30%.
- Added comprehensive unit tests, achieving 95% test coverage and ensuring higher reliability and maintainability of the SDK.
- Streamlined SDK documentation, resulting in a 40% reduction in support queries and empowering developers to self-serve effectively.
- Enhanced SDK performance by optimizing core functions, reducing execution time by 20% and increasing adoption by external clients by 25%.

## Software Developer

- Developed REST APIs with FastAPI for seamless integration of internal applications with third-party platforms.
- Architected microservices to modernize customer management systems, enabling real-time updates for 1,000+ users and improving data processing efficiency by 60%.
- Automated workflows and enhanced system reliability, reducing manual intervention by 40%.

## EDUCATION

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### Bachelor of Commerce (B.Com)

Fakir Chand College, Diamond Harbour

Specialization in Accounting and Finance

CGPA: 6.86/10

Aug 2013 - Jun 2017

## CERTIFICATIONS

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- **AWS Certified Developer Associate**
  - Expertise in Microservices and serverless architecture along with other AWS services integrations.
- **MongoDB Certified Developer**
  - Advanced knowledge of MongoDB Data modeling, query optimization and performance tuning.
- **Full-Stack JavaScript Developer Professional Certificate**
  - Proficient in building backend systems using Node.js and Express.js.
- **The Structured Query Language (SQL)**
  - Expertise in SQL, MongoDB, and PostgreSQL database optimization.
- **Hands-on Introduction to Linux Commands and Shell Scripting**
  - Expertise in Linux commands, scripting, and system-level programming.

## INTERESTS / LEARNING

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- **Low-Level System Programming:** Exploring the inner workings of operating systems and hardware.
- **Compiler Design:** Interested in compiler design, optimization, and related theory.
- **Tool/Framework Development:** Building tools and frameworks to enhance productivity and system performance.
- **Game Development:** Passion for building interactive games, focusing on multiplayer systems and gameplay mechanics.