

# Pranav Kulkarni

SOFTWARE DEVELOPER — Web Development, Cloud Architecture, AI/ML Integration

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## SKILLS

- **Programming & Scripting:** Java, Python, JavaScript, backend logic, modularization, and flow control.
- **Frameworks & Libraries:** Angular, Express.js, Flask, Spring Boot used for scalable full-stack development.
- **Databases & Cloud:** Firebase Fire store, SQL, MySQL, PostgreSQL, AWS, GCP cloud-native data ops.
- **Web Development:** HTML5, CSS3 device responsive design, modern UI/UX, browser-compatible interface.

## CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect – Associate
- AWS Certified AI Practitioner
- AWS Certified AI Practitioner (Early Adopter)

## WORK EXPERIENCE

### Software Developer

October 2024 – Present

A1 Global College

Ontario

- Engineered scalable web applications leveraging Angular, Express, AWS Lambda, optimizing backend processes, enhancing system throughput by 42%, and reducing server latency by 28% across distributed service endpoints.
- Devised seamless integration of Firebase Authentication with RBAC protocols, strengthening security frameworks, and streamlining user access control workflows, and decreasing unauthorized access incidents by 35%.

### Full-Stack Developer

September 2023 – May 2024

TCIC

Ontario

- Designed comprehensive bookkeeping platform featuring advanced payroll automation using Angular and Express, and also reducing manual data entry time by 50%, and improving financial processing accuracy by 40%.
- Deployed Firebase database and a scalable role-based authentication framework, boosting data retrieval speeds by 33%, securing multi-tier access management protocols, and cutting overall user conflicts by 25% seamlessly.

### Software Developer Intern

May 2023 – September 2023

AA Business Consultancy

Ontario

- Impemented to enterprise-grade Spring Boot web applications, optimizing backend code base, enhancing response times by 38%, enabling deployment of three client-focused projects with improved scalability and system stability.
- Authored detailed technical design documentation, executed advanced debugging protocols, and orchestrated overall testing frameworks, unit reducing system errors by 30% and improving overall code coverage by 45%.

### Administrator

September 2023 – May 2024

York University

Ontario

- Managed daily operations of tutoring initiative, coordinating schedules, bookings, and logistics, increasing session attendance by 30%, and optimizing multi-skilled resource allocation across concurrent engineering courses.
- Maintained and routinely updated website, administered tutor and student data management systems, improving accessibility and reducing booking errors by 22% through streamlined, programmed automated digital workflow.

## PROJECTS

### Early Intervention System - (Full-Stack + AI Developer)

- Devised a full-stack tool for student performance using LMS data, custom grading, improving accuracy by 30%.
- Initiated scalable AI workflows using AWS Lambda, S3, Bedrock, RAG, FAISS, encryption, and preprocessing.

### NarratoGenie – AI-Powered Video Generator - (Backend + AI Integrator)

- Collaborated PDFs into Instagram-style reels with 90% AI-generated narration, subtitles via AWS Polly.
- Created AI-powered backend via Express, AWS EC2, Hugging Face APIs to enhance educational content delivery.

### Cold Mailer – Automated Cold Email Platform - (Developer)

- Evaluated a tool to automate follow-up emails for job applications every 3 days using Firebase Cloud Functions.
- Trained 20+ users to expertly track application statuses, manage employer lists with Angular, Firestore.

## EDUCATION

### B.Sc. Hons., Computer Science

York University, Toronto

Member of Dean's Honor Roll

September 2021 – April 2025

GPA : 7.90 / 9