



Prateek Pradhan

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विद्याविनियोगादिकाः

Summary

Results-driven product and technology leader with 6+ years at Apple and Qualcomm, owning software features on iPhones and other flagship consumer products. Led cross-functional programs from architecture through launch, including roadmap decisions and go-to-market prioritization with senior stakeholders. Identified, built, and deployed production GenAI systems, including RAG pipelines and agentic workflows.

Professional Experience

Software Development Engineer | Apple | Bengaluru

Aug-2022 – Apr 2026

- Pioneered **Apple's most energy-efficient modem**, achieving **25% lower power consumption** as a **founding software team member**, enabling thinner iPhone designs with improved thermal and network management.
- Built and shipped an **agentic AI automation product** for global triage and debugging, achieving **95%+ accuracy** and significantly reducing operational man-hours across worldwide teams.
- Designed and deployed an **LLM-based code-review tool** for software check-ins, cutting review turnaround and improving pre-merge defect detection.
- Led chip bring-up across **7+ functional areas** for multiple cellular programs in iPhones, **owning end-to-end execution**, architecture design, software development, and triage of **100+ issues/week** to keep launches on schedule.
- Spearheaded an **RF resource-sharing architecture** for iPhone, cutting power consumption by **27%** and reducing **chip area and cost**, improving compatibility with telecom carriers and elevating customer experience worldwide.
- Built core functionality for **Emergency SOS via Satellite**, the iPhone feature that connects users to emergency responders where no cellular network exists, credited with **documented life-saving outcomes**.
- Engineered a **Multi-SIM** feature, improving download speeds by **11%** and call-drop performance, strengthening **Apple's competitive edge** in key dual-SIM markets.

Software Development Engineer | Qualcomm | Hyderabad

Nov 2019 – Aug 2022

- Led software design for **4G and V2X** technologies on the **Snapdragon Auto 5G/820** platform powering connected and autonomous vehicles, a product line contributing to **\$1B in 2021 sales**.
- Managed a **3-member team** for a software subcomponent of the **Qualcomm X70 5G** chipset, designing pioneering **5G DSDA** features for premium-tier phones and enhancing the customer experience.
- Partnered with major OEMs including **Apple, Samsung, and Mercedes** to translate customer-specific requirements into cellular features, **delivering on schedule** across competing customer roadmaps.
- Resolved **200+ performance and stability issues** from customer field testing, **protecting critical launch schedules** for global OEM programs.
- Co-designed and developed a smartphone feature that improved **factory test and calibration power consumption by 18%**.
- Ideated and implemented an **R&D feature for thermal mitigation** in smartphones, preventing hardware component damage and failure due to excess heat.

Education

Bachelor of Technology (Electrical Engineering), Indian Institute of Technology, Indore (IIT) | India

Jul 2015 – May 2019

Accomplishments and Awards

- Awarded the **Orion Insta Award** at Qualcomm for outstanding contribution.
- Received a commendation from **Apple executive management** for outstanding software design and testing frameworks within a cross-functional engineering team.
- Promoted from **Associate Engineer to Engineer** at Qualcomm, 2021.
- Granted company stocks and bonuses at Qualcomm as reward for cumulative performance (2020–2022).
- Secured **AIR 2441 in JEE 2015**, placing within the **top 0.2%** of 1.23+ million candidates.
- Secured **5th** rank in the District Talent Search Exam, Jaipur District.

Co/Extra-curricular

- PGPM Placement Committee Vertical Head for Technology. Leading placement strategy and industry outreach for technology sector roles.
- Conducted teaching activities at various government schools in Simrol village as well as events such as plantation drive old age home visit at IIT Indore(2015 – 2018).
- Member of Cultural committee, Entrepreneurship cell, Techno-cultural Fest Organising committee at IIT Indore (2015 – 2018).
- Directed and acted at my school, Kapil Gyanpeeth for Academic Year 2010 – 2012; led a team of 10 students to win inter-school street play competition.