

# Ayush Pranshu

Principal Software Engineer | Principal Software Architect

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**Location:** Bengaluru, Karnataka, India

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## Professional Summary

An accomplished **Principal Software Engineer** with nearly **13 years of expertise** in building and scaling high-performance systems across **backend engineering** and **distributed architectures**. Proven ability in **leading product development** from initial **concept to full scale** deployment in a dynamic startup environment. Adept at leveraging technologies like **Python, Django, Flask, Node.js, AWS, and MongoDB** to craft **innovative, customer focused solutions** that drive **business growth**. Skilled at optimizing **backend systems** for **scale, performance, and security** while building teams to foster a culture of **excellence** and **upskilling**. Known for transforming **business needs** into actionable **technical strategies** and delivering **measurable results**, including improved **operational efficiency** and **user satisfaction**. Passionate about solving **complex problems** and empowering teams to achieve their fullest potential.

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## Skills & Competencies

- **Programming Languages:** Python, Node.js, C++, Java
  - **Web Frameworks:** Django, Flask, Express.js
  - **Cloud Computing & Infrastructure:** AWS (EC2, S3, Lambda, RDS), Docker, Kafka
  - **Databases:** MongoDB, MySQL, PostgreSQL
  - **Distributed Systems & Microservices:** Designing scalable architectures, Load balancing, High-availability systems
  - **DevOps & CI/CD:** Jenkins, Git
  - **Software Design & Methodologies:** Agile, Scrum, TDD, Design Patterns
  - **Machine Learning & Data Integration:** scikit-learn, Google Maps API, OpenWeather API
  - **Leadership & Mentorship:** Cross-functional team leadership, Mentoring & Coaching junior engineers, Code reviews
  - **Problem Solving & Optimization:** Performance tuning, Scalability, System reliability
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## Professional Experience

### Spotcab

#### Principal Software Engineer & Architect

01/2020 – Present

- Spearheaded **technical strategy** and **product development** for a fast-paced **Employee Transportation Solution startup**, leading **architectural** decisions and optimizing **backend systems**, which resulted in a **20% improvement** in **scalability**, security, **performance**, and efficiency.

- Orchestrated the design and delivery of a **RESTful microservices-based backend**, utilizing **Node.js, Flask, Django**, MongoDB, MySQL, Kafka and **AWS**, building features like user and ride management, route assignment, billing, and tracking, ensuring **smooth operations** and **high system performance**.
- Engineered a **machine learning-driven ride time estimation service**, integrating **Google Maps** and **OpenWeather APIs**, resulting in a **5%** increase in **ride time accuracy** and a **12%** improvement in **operational efficiency** and customer experience.
- Designed and built a low **latency(300ms)**, high-performance architecture for enhancing application responsiveness and **user experience**.
- Coached junior engineers and fostered a culture of **continuous learning** and upskilling, improving the team capabilities in **backend engineering** and scalable solutions.
- Championed large feature releases, resulting in a **5% reduction** in **ride time estimations** through innovative **machine learning algorithms**.
- Collaborated with **cross-functional teams** to align **technical execution** with **product roadmaps** and **business goals**, ensuring timely delivery of impactful solutions.
- Contributed to the **product roadmap** by providing **strategic input** and aligning **technical direction** with long-term company objectives.

## Ribbon Communications

### Technical Lead

04/2018 – 06/2019

- Contributed to the development of high-performance features for **Session Border Controllers (SBC)** in the **telecommunication**, focusing on improving **reliability** and **system performance** leading to enhanced **stability** and **customer satisfaction**.
- Resolved complex **technical challenges**, resolving **2 long-standing system coring bugs**, improving **system stability** and operational efficiency.
- Worked with **cross-functional teams** in **Agile sprints**, ensuring on-time delivery of high-quality features meeting timelines(100% on time).
- Supported **junior engineers**, guiding them through intricate **technical problems** and enabling their professional growth and fostering a culture of knowledge sharing within the team.

## GlobalLogic

### Associate Consultant

03/2015 - 03/2018

- Created **scalable, cloud-based APIs** deployed on **AWS**, improving system reliability and performance meeting critical SLAs.
- Led the design and development of new features of a **Business Intelligence (BI) tool**, successfully **reducing technical debt by 70%**, resulting in improved **stability**, code **maintainability** and **faster development cycles**.
- **Collaborated with product teams** to translate business requirements into technical designs for **predictive analytics** and other advanced features driving **innovation** and aligning **technical solutions** with **business goals**.

## **Rohde & Schwarz**

### **Project Lead Developer**

*08/2012 - 07/2013*

- Engineered a **Wireshark plugin** for **ED137B protocol**, improving support for **RTP** in air traffic communication systems, resulting in improved **analysis** and **system reliability**.
- **Architected** and **implemented** an **integration suite**, improving the **efficiency** of analyzing complex communication systems, leading to faster **issue detection** and **easier system integration**.

## **TUM**

### **Developer**

*10/2010 - 09/2012*

- Built a **testbed** for testing the integration of the **GNUnet** secure peer-to-peer communication application, ensuring **robustness** and **scalability** for distributed systems, leading to more reliable peer-to-peer communication.
- Created a **Java-based fault tree analysis tool** for evaluating faults in **wind turbine systems**, focusing on **failure propagation** and impact analysis in critical infrastructure improving **system reliability** and preventive maintenance.

## **Schneider Electric**

### **Software Engineer**

*07/2009 - 03/2010*

- Developed a **Modbus protocol driver** for **industrial network communication**, enhancing **control** and **configuration** capabilities in industrial automation systems.

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## **Education**

**Bachelor of Engineering** in Computer Science and Engineering

*Manipal Institute of Technology, 2009*

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## **Awards & Recognition**

- **Winner, 30Hacks National Hackathon** (GlobalLogic, 2017)
- **Quarterly Engineering Award Winner** (GlobalLogic, 2017)
- **Annual Engineering Award Winner** (GlobalLogic, 2016)

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## **Volunteering & CSR Activities**

- Participated in **tree planting**, **carbon footprint reduction**, and **community development** projects.