

Astha Mishra

<https://asthamishra.me> | mishra.astha319@gmail.com | [linkedin.com/in/astham/](https://www.linkedin.com/in/astham/)

Objective

Quality-oriented professional with 2.5+ years of experience in the medical devices industry. Aiming for the advancement of the healthcare industry through R&D of Innovative and Cost-efficient medical devices.

Education

Post Graduate Diploma in Advanced Computing (PG-DAC) 08/2017 – 02/2018

Advanced Computing Training School (ACTS), CDAC, Pune

80.55%

Bachelor of Technology in Computer Science and Engineering 08/2013 – 07/2017

ITM University, Raipur

89.50%

Class XII (ISC Board) 04/2011 – 04/2012

The Radiant Way School, Raipur

87.75%

Class X (ICSE Board) 04/2009 – 04/2010

The Radiant Way School, Raipur

83.20%

Work Experience

SOFTWARE ENGINEER I 03/2018 – PRESENT

ICU Medical India LLP, Chennai, India

Project: Next Generation Infusion System (PLUM SILVER)

- **Remote device configuration (Android, Java, HTML, CSS, JavaScript, jQuery, Netty framework):** Implemented HTTP based web interface for device configuration (WIFI, Ethernet, Hospital Safety Software), Upload of device certificates, and Factory reset.
- **Settings Profiles and Log Download (Java):** Developed features to create and manage settings profiles. Implemented download of device debug logs from the web interface.
- **State Machine(Android, Java):** Implemented state machine for device configuration.
- **Cybersecurity:** Added SSL support for communication, Updated cipher suits, Implemented settings validation and obfuscation, Added audit logs for cybersecurity and system events.
- **Database management (SQLite):** Implemented Android micro-service for saving device logs in the database in a synchronous way.
- **Log Processor tool (JavaFX):** Implemented features for analyzing and visualizing device events from device logs.
- **Build System (Gradle, ANT, JFrog):** Migrated build system from ANT to Gradle. Created and maintaining the JFrog repository for project dependencies.
- **Automation using Jenkins (Python, Jenkins, Docker, Parasoft, Lint):** Implemented Jenkins job for Static analysis, JavaScript testing, Build systems, and Android Lint analysis. Implemented and automated scripts for tracking requirements status using Python.
- **Testing and Debugging (JUnit, Selenium, Mockito):** Implemented Unit, Integration, and JavaScript tests. Worked on bug fixing and debugging crucial device defects.

Project: PLUM 360 Smart Infusion System

- **Development and Debugging (Java, Android, Ant):** Worked on maintenance and bug fixing.
- **Testing (JUnit, Selenium, Java, Jenkins):** Implemented and automated stress testing.

Academic Projects

- **Electronic Health Record (Spring MVC, Java, Hibernate):** Web application is used by patients to book doctor appointments while the doctors can check the medical history of their patients via the application. Doctors can prescribe medicine on the portal and forward patient history to relevant test centers.
- **Microcredit Banking on smartphones (Android, Java, SQLite):** Android application used for keeping track of all the transactions across multiple bank accounts.
- **Online Student Portal (PHP, MySQL, HTML, CSS, JavaScript):** Web Application used by students and professors to communicate and share resources, assignments, and E-books. It also doubles as a notice board.

Personal Projects

- Developed website for **State forensic science laboratory, Raipur** (<http://www.fsl.cg.nic.in/>).
- Developed website for the **Technical Festival of ITM University** (<http://technohunt.tk>).
- Developed a Website for **Sankalp Sankritik Samiti**, an NGO committed to community service (<http://sankalpss.ml>).

Trainings

- **Java** by *Naresh I Technologies* | Hyderabad | 2 months
- **Android** by *Satya Technologies* | Hyderabad | 1 month
- **MATLAB** by *Infinite solutions* | Raipur | 1 month

Workshops

- **Internet of things** by *i2indya Technologie, Raipur* on 11/2015.
- **Ethical hacking and information security** by *CYTEC (P) Limited* on 10/2014.

Achievements

- Received **Academic Excellence Award** for securing Rank 1 and position of “Overall topper of Batch 2013-17” in School of Engineering and Research, ITM University.
- Secured 1st Position in University level Chess Competition.

Voluntary Experience

- Organized State level Technical festival (Technohunt-2016) at ITM University.
- Anchored in mega-events like the Annual sports festival(Primavera) and Engineers day celebration for three years at ITM University.
- Delivered “TECH TALKS” and mentored newcomers and interns in the workplace.

Skills

Languages/Framework: Java, Android, Python, C, C++, C#, Spring MVC, JavaFX, Netty, Groovy

Web Technologies: HTML, CSS, PHP, JavaScript, JQuery, Angular, JSP, ASP.NET, Servlet

Databases: MongoDB, SQL, MySQL, SQLite, Hibernate, Oracle DB

Tools: Gradle, Ant, IntelliJ, Android Studio, Eclipse, Visual Studio, Perforce, Git

Interpersonal: Team Worker, Quick learner, Problem Solving, Communication Skills