SUSANTA KORA

SOFTWARE DEVELOPMENT ENGINEER

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SUMMARY

Detail-oriented Software Engineer with **3.8 years** of experience in designing and implementing complex software applications. Adept at leveraging emerging technologies and tools to drive process improvements and enhance user experiences. Dedicated to delivering high-quality, well-tested code on time and within budget.

EDUCATION

M.Tech (Dual Degree): Electrical Engineering   July 2014 - July 2019
Indian Institute of Technology Kharagpur (IIT KGP)   *Kharagour, India*
Specialization in Instrumentation and Signal Processing

PROFESSIONAL EXPERIENCE

Software Development Engineer   Aug 2022 - Present
Siemens Healthineers   *Bangalore, India*

- Created a client-side python script to send image data to the Docker container via **gRPC protocol**, and a server-side script to receive the processed image and display it to the user.
- Designed and implemented **Behavior Tree** architecture in **C#.NET** for a healthcare application, resulting in a flexible and extensible system that could accommodate a wide range of behaviors and decision-making processes.
- Boosted code compilation speed by **30%** by creating **Docker** images to compile complex projects within Docker containers.
- Built a **WSL-based** development environment and trained team members on utilizing it for efficient development.
- Implemented **BDD SpecFlow** and **NUnit** tests in **C#** to ensure high-quality software deliverables with minimal errors.

Software Engineer   July 2019 - Aug 2022
Honeywell Technology Solutions Pvt. Ltd   *Bangalore, India*

- Developed **10+ core** features utilizing **ASP.NET** and **Web APIs** to monitor real-time data and control plant processes.
- Designed & Developed a **.NET** App named Process Optimization Advisory, aiding in process control system optimization.
- Addressed **100+ customer issues** and implemented enhancements, resulting in a **40%** boost in web performance.
- Delivered expert customer support, troubleshooting complex application issues to ensure high customer satisfaction.
- Collaborated in developing high-quality, unit-tested software, reviewed and regularly checked in for continuous integration.
- Boosted product development cycle time by adopting **Agile methodologies**, **CICD**, and **DevOps** strategies.

INTERNSHIPS & PROJECTS

Business Studio Pvt. Ltd. (Summer Internship)   May-July 2017, *Bangalore, India*

- Built a chatbot using **Microsoft Bot Framework** & **Cognitive Services** to perform multiple tasks based on user inputs.
- Introduced natural language understanding capabilities to the bot with the help of the **LUIS Framework**.

Quantiphi Analytics Private Limited (Summer Internship)   May-July 2018, *Mumbai, India*

- Developed an automation system to convert **Saved Model** (Pb) to **TensorFlow** Lite format for mobile/embedded devices.
- Created a data acquisition web application that predicts age, gender, ethnicity, and emotion using pre-trained models.

Audio-Video Signal Offset Determination -IIT Kharagpur   Aug-Jan 2018, *Kharagpur, India*

- Determined **audio-video signal offset** by separately tracking time of occurrence of **bilabial consonant** in both parts.
- Implemented **AlexNet** & **LeNet** CNN architectures to train the model on image dataset & attained an accuracy of **91%**.
- Achieved detection of Bilabial consonants in the video by tracking a person's lip movement using **image processing tools**.

SKILLS

- **Programming Languages and Frameworks:** C++/C, C# .NET, Python, Golang, ASP.NET
- **Web, Libraries, and API:** Docker, Git, HTML5, CSS3, JavaScript, Angular, Azure DevOps
- **Software's:** Postman, Visual Studio, SourceTree, Bitbucket, Visual Build Pro, Rational ClearCase, MATLAB

EXTRA-CURRICULAR ACTIVITIES

- Awarded with **Silver** for delivering exceptional work & successfully releasing of product at Honeywell Technology Solutions
- Won **4 medals** in various Dramatics & Literary Inter-hall events including **2 Gold**, **1 Silver**, and **1 Bronze** at IIT KGP.
- Raised awareness and mentored school children in underprivileged regions as a part of the **National Service Scheme**.
- Secured **1st** position amongst **50,000+** participants in **The Annual All India Essay Writing Competition 2009.**