Sagar Chethan Kumar

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EDUCATION

Franconian International School   **Erlangen, Germany**
International Baccalaureate Diploma   *August 2022*
- IB Predicted: 44/45; Math AA HL 7, Physics HL 7, German B HL 7, CS SL, 7, BM SL 7, English L&L SL 6

WORK EXPERIENCE

Varian Medical Systems   **Munich, Germany**
Research and Software Development Intern   *27/01/22 - Present*
- Conducting an academic literature review on existing implementations of semantic segmentation of 3D depth scan point clouds of the human body.
- Developing software in Python using CNN, OpenCV, and Template-Based Models for pose estimation of the human body.
 Investigating and implementing ingenious statistical outliers and voxelization methods for feature extraction.

Digital Twin and Adidas   **Erlangen, Germany**
Application Development Intern   *14/07/2021 – 30/07/2021*
- Redesigned 20 Android and IOS user interfaces using Adobe XD and native .xml editors.
- Optimized representation of data from sensory tracking systems (accelerometer and heart rate).
- Produced a criterion-based application development system increasing communication and visualization efficiency by 40%.

Friedrich–Alexander University Machine and Data Analytics Lab   **Erlangen, Germany**
Research Intern   *05/07/2021 – 25/07/2021*
- Systematized an academic review concerning 11 studies on parameters that influence breast cancer risk.
- Assessed the support potential of 3 stages of treatment within the use of technology (home monitoring, mHealth, uHealth, wearables, and data manipulation).
- Presented systematic literature findings to a panel of research students and professors at Joint PRL and Mad Lab Conference 2021.

Adidas Hype (Confirmed)   **Erlangen, Germany**
Application Development and Backend Systems Intern   *10/07/2019 – 09/08/2019*
- Developed Android Application in Hype Selection with Java and XML (Lottery System)
- Implemented 15 adaptive user interfaces with .xml natively in Android Studio
- Applied database interface mechanisms in SAP to improve compatibility by 60%
- Investigated AI data structures for the CONFIRMED application's product recommendations.

LEADERSHIP EXPERIENCE

Coding Society   **Erlangen, Germany**
Co-Leader   *06/2018 - 08/2021*
- Led monthly community programming session on fundamental development principles (OOP, Extensibility, or Efficiency)
- Researched and assisted members into implementing 5+ data structures into personal projects like Work-It!

Refugee Aid   **Erlangen, Germany**
Founder   *06/2017 - 08/2021*
- Reached 150+ refugees and initiated 10+ community outreach events.
- Instigated biweekly visits to refugee center, enabling adolescence to cultivate language, technical, social, and cooperative skills
- Advocated for increased opportunities within the local community through town hall.

SKILLS & INTERESTS

Skills: Python, Java, C++/C#, HTML, CSS, XML, JavaScript, Android Studio, Adobe XD, After Effects

Language Proficiencies: English, Native; German, Fluent; Kannada, Limited Working Proficiency.

Interests: Computer Vision, Machine Learning, Automation, Application Development.