Vishnu Gopal Rajan

+1 (408) 480 6366 - My Website - My LinkedIn - My GitHub - vishnugrajan14@gmail.com

WORK EXPERIENCE

DANAHER CORPORATION - CEPHEID , Sunnyvale, CA   **July 2021 – Present**

Senior Software Engineer

- Actively contributing to a pivotal team developing and innovating next-generation product software for molecular diagnostic testing instruments using Angular and core Java
- Serving as the Technical Lead for the release of multiple versions of XpertCheck, a critical preventative maintenance software generating approximately 60 million in revenue every quarter, ensuring timely delivery, quality assurance, and meeting key business objectives.

Software Engineer II

- Contributed to the Product Lifecycle Management(PLM) of 3 GeneXpert products by delivering more efficient, smarter, and less tightly coupled Firmware updates to instrument modules using GeneXpert product software.
- Enhanced system design by collaborating with cross-functional teams to identify key requirements and design solutions that met business needs while optimizing system performance.

Software Engineer I

- Worked on a team responsible for the full-stack design, development, and debugging of GeneXpert Infinity product software using Core Java and SQL. Working towards enhancing and maintaining existing software with new features and increased performance.
- Developed SQL scripts for database migration during product software upgrades, incorporating JUnit test cases to ensure data integrity and consistency post-migration.

SEROTONIN LABS INC.   **June 2020 – Aug 2020**

SOFTWARE ENGINEER INTERN (REMOTE)

- Worked on full stack development and data visualization of user dashboards related to supplement consumption and activity measurement, including developing a web app using React Native to display the dashboard connected to a MongoDB back end database.
- Developed an ML model to analyze the resting heart rate of 100+ real-time users every night to correlate heart rate sleep patterns with supplement intake.

EDUCATION

The University of Texas at Arlington   **Arlington, Texas, USA**
Master's in Computer Science   *Aug 2019 - May 2021*
Bangalore Institute of Technology   **Bangalore, India**
Bachelor's in Computer Science   *Aug 2015 - Jun 2019*

TECHNICAL SKILLS

Programming Languages: • Java • C++/C • JavaScript • Python • TypeScript • SQL • Git
Back-End Development: • Node.js • Django • Flask • Spring Boot
Front-End Development: • React.js • Angular • Vue.js • HTML/CSS
Database: • MySQL • MongoDB • PostgreSQL • SQLite • Oracle Database • BigQuery

PROJECTS

- **Robot Control Via Head Gesture Based Interface** — C++, Python GitHub
- **E-commerce Website Full Stack Development** — Java, JavaScript, React JS, Firebase GitHub
- **EduSense - Smart Face Recognition Attendance System** — Python, HTML /CSS, OpenCV Github
- **Detecting MI using Computer Vision and Deep Learning** — Python , Jupyter, R, Shell GitHub
- **Navigating Obstacle Course with the Lego Mindstorms using Odometry - Autonomous Robotics** Github

CERTIFICATIONS

- AWS Essential Training for Developers - AWS Cloud Practitioner Essentials   Link
- Master Angular   Link
- Designing RESTful APIs   Link
- Advanced Java Programming   Link

PUBLICATIONS

- Detecting Myocardial Infarction using Computer Vision and Deep Learning   Link
- Robot Control Via Head Gesture Based Interface- Paper   Link