Muraleekrishna G

STUDENT

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Education

The Australian National University, Australia

MASTER OF ENGINEERING *2018–2019*

Mechatronics

Federal Institute of Science and Technology (FISAT) *7.49 GPA*

B.TECH *2010–2014*   *Mahatma Gandhi University, India*

Electronics and Communication Engineering

Rajagiri Higher Secondary School *92.7%*

HIGHER SECONDARY *2008–2010*   *DHSE, Kerala, India*

Computer Science and Mathematics

Carmel Higher Secondary School *97.5%*

SSLC *2008*   *SCERT, Kerala, India*

Mathematics, Physics and Chemistry

Professional Experience

Software Engineer - TDD, Ruby, Cordova, Java, Angular, HTML5, CSS3, Postgres *April 2017– September 2017*

ACONEX   *Banglore, India*

- Supervise and adapt new technology into the existing projects.
- Monitor and practice XP and Agile software development process to assure quality of the software.
- Understand business requirements through direct interactions with stakeholders.
- Architect, develop, deploy and maintain software products for web and mobile platforms.
- Improve software engineering processes and uphold Agile and XP values.

Software Consultant - TDD, Ruby, Cordova, Angular, HTML5, CSS3, Postgres *April 2015– April 2017*

ACONEX   *Banglore, India*

- Develop web app for construction project managers.
- Develop hybrid mobile app using Cordova and AngularJS for field inspectors.
- Use TDD to drive, test and document code.
- Run retros, Stand-ups and Scrum meetings.
- Contributing to the quality software which helps people to collaborate on the world's largest construction projects.
- Maintain CQRS based microservices.
- Build and design new REST APIs for third party consumers.

Software Programmer / Full stack developer - Ruby on Rails, JavaScript, React, HTML5, CSS3, MongoDB, Postgres

July 2014 – March 2017

MULTUNUS SOFTWARE PVT. LTD.

Banglore, India

- Worked with Non profit Fintech company Intersect Fund to optimize their loan closing, servicing and undertaking using software.
- Develped an intelligent recommendation system for VakilSearch to help their customers find the right legal service.
- Lead developer in an internal application to improve employee well-being.
- Understand business requirements through direct interactions with customers, users and product owners.
- Design, develop, test and maintain software products across various domains and deliver working software every 2 days .
- Develop high quality software through Agile and XP practices.
- Help devise, implement and improve software engineering processes.
- Interview and hire developers. Improve the hiring processes.
- Train and mentor new recruits and improve training process.

Welfare Experience

Australian Nationanal University

Canberra, Australia

COURSE REPRESENTATIVE

Feb 2018 - Current

- Collect and collate student feedback about the course content, work load and teaching methods.
- Voice student concerns to the relevant authorities
- Provide assistance and advocacy to students.
- Communicate the outcomes of meetings with course conveners to students.

Make A Difference (MAD)

Kerala, India

STUDENT SUPPORT FELLOW

July 2013 - Jan 2014

- Teach students of economically backward community studying in 10th or equivalent classes.
- Deliver physics and chemistry classes to students every weekends at their welfare center.
- Provide assistance and advocacy to improve social and psychological functioning of children and their families.
- Counsel bashful students to overcome their social anxieties.

Core Skills

Ruby, HTML, JavaScript, Python, C/C++, MATLAB

PROGRAMMING LANGUAGES

Linux, OSX, Windows

OPERATING SYSTEMS

Ruby on Rails, JQuery, Angular/AngularJS, Postgres, Emacs

SOFTWARE AND PLATFORMS

Memberships and Positions

2017	**Member**, Robotics and Automation Society		*IEEE*
2012–2014	**Research Intern**, Center for High Performance Computing (CHPC)		*FISAT, India*
2013–2014	**Student Support member & Trainer**, Spoken Tutorial Project		*IIT Bombay*
2013–2014	**Organizer**, FISAT Science Congress		*FISAT, India*
2013–2014	**Secretary**, ECHO, Electronics and Communication Department Club		*FISAT, India*
2011–2014	**Teacher**, Physics and Mathematics		*Make A Difference*

Academic Projects

Autonomous Car

Computer Vision and Motion Planning

Guide: Dr. S Krishna Kumar

Sep 2013

The goal of this project was to develop an autonomous electric vehicle capable of driving on urban style roads. The system is built around ROS, an open source robot operating system. Two real-time solutions are implemented; a reactive prototype using sensors and actuators and a more complex deliberative approach using a sense-plan-act architecture. The detected obstacles are used to manoeuvre between them and GPS data is used to compute shortest distance to the next milestone. The vehicle is able to reliably navigate the test track around the college campus

Multi-layered Display Using Water Drops

Computer Vision and Image processing

Guide: Prof. Bejoy Varghese

Jan 2013

Water drops are transparent and serve as tiny fish-eye lenses. In this work, we have created a high-resolution, multi-layer (2.5d) drop display that can show images and videos. Our system consists of a single projector-camera system and a set of linear drop generator manifolds that are tightly synchronized and controlled using a computer. Our prototype system has up to four layers, with each layer consisting of an row of 50 drops that can be generated at up to 60 Hz. We showed how this water drop display can be used for text, videos, and interactive games

References

Mr. Ranganathan Balashanmugam

Aconex India Pvt. Ltd., India

Head of Engineering and Director Operations - India

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Mr. Akshay S. Murthy

Multunus Software Pvt. Ltd

Senior Programmer

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Dr. S Krishna Kumar

FISAT

Professor, Electronics and Communication Engineering

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Mr. Bejoy Varghese

FISAT

Assistant Professor, Electronics and Communication Engineering

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