Roshin Kadanna Pally



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Summary

Senior Software Engineer with a proven record of delivering highly impactful features.

- Experienced in designing and implementing simulation and visualization features
- A team player with an excellent work ethic and interpersonal skills
- •Led projects and mentored new hires and interns
- Adept at working with cross-functional teams such as UX, Marketing, and Application Engineering

Experience



📣 Senior Software Engineer

MathWorks

May 2016 - Present (4 years 9 months +)

Developed simulation visualization tools using C++, JavaScript, and MATLAB

Visit ► https://www.mathworks.com/videos/driving-scenario-designer-1529302116471.html

- ■Built Driving Scenario Designer app and integrated Lidar and INS sensors
- ■Added lanes ground truth specification, visualization, and detection
- ■Developed Bird's-Eye Scope in Simulink and integrated Scenario Reader block
- ■Improved road rendering performance by more than 50%

Contributed towards the full-stack development of Logic Analyzer in Simulink

Visit ► http://www.mathworks.com/videos/logic-analyzer-overview-121719.html



Software Engineer

MathWorks

Dec 2010 - May 2016 (5 years 6 months)

Contributed to the development of the new Simulink Scope and a Unified Scopes infrastructure

Visit ► http://www.mathworks.com/videos/new-interface-for-scopes-106836.html

- ■Developed simulation playback controls, style dialog, and a new programmatic interface
- Added support for sample times, enumerated data types, event-based signals, signal units
- ■Improved the loading and rendering performance of the Scope
- Collaborated with UX and visual design to improve the new Simulink Scope GUI



Signal Processing and Communications User Interfaces Intern

MathWorks

May 2010 - Dec 2010 (8 months)

- Migrated key graphical features of MATLAB/Simulink to the new MATLAB graphics system
- Provided basic graphical property editing capabilities in the Simulink Scope
- Improved launch performance of Simulink Signal and Scope Manager by more than 50%
- Added internationalization (i18n) and localization (I10n) support for various GUIs
- Fixed numerous bugs in the infrastructure and improved usability of GUIs



Research Assistant

Virginia Tech

Jun 2007 - May 2010 (3 years)

I received a graduate research scholarship from the DSP Research Lab at Virginia Tech directed by Dr. Louis Beex. I worked on various projects in Signal Processing and Communications. The projects involved research, development, and testing of software to implement signal processing algorithms. Additionally, I helped setup the design project for the DSP & Filter Design course, graded the course projects, and taught one class of the Signals and Systems course.

Education



V/ Virginia Tech

M.S., Electrical Engineering

2007 - 2009

Thesis: Implementation of Instantaneous Frequency Estimation based on Time-Varying AR Modeling

New SUNY New Paltz

B.S., Electrical Engineering

2004 - 2006

Senior Design Project: A Physical Activity Monitoring System

- Created an Embedded System to capture gait activity
- Created Software in MATLAB to process captured data

Licenses & Certifications



Leadership is everyone's business - FULL EXTENSION, LLC

Mastering React - Code With Mosh cert_b0rr5js3

Skills

Matlab • C++ • JavaScript • Design Patterns • Node is • React is • MongoDB • Git • Teamwork • Communication

Honors & Awards



Outstanding Graduate Award - State University of New York at New Paltz May 2006



National Dean's List 2004-2006



Eta Kappa Nu Association

Dec 2005