Ashwin Sundar

Senior Software Engineer

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Interested in embedded software development for neuroscience applications. Easy to work with, bold in suggesting improvements. Lifelong learner with a variety of interests.

DEPT - *a technology consultancy based in Amsterdam, Netherlands.*
Senior Software Engineer (January 2023 - present)
Current client: Terumo BCT

- Embedded Linux (C++) medical device development
- Mentorship of junior engineers
- **Tools used**: C++, gdb, Catch, shell scripting, Linux Fedora, Jira, JFrog Artifactory, git

Software Engineer III (January 2022 - January 2023)
Client: raisingcanes.com (Jan 2022 - August 2022)

- Full stack web development for high-visibility business homepage
- **Tools used:** Gatsby/ReactJS, GraphQL, Azure DevOps, and git

Other work:

- Technical writing, speaking (Risk Management, Benchmarking Rust Performance, Parallel Processing in Rust, ChatGPT3 for developers)

Medtronic
Software Engineer II (October 2017 - January 2022)

- Developed/delivered training for users across US and China
- 2018 Medtronic Beacon Award
- DRM Green Belt Project proved potential savings of $1.6 million dollars per year
- **Languages/tools used:** Cognition Cockpit, HTML, CSS, Javascript/jQuery, ObjectStore database scripting, Tableau, SQL, R

Software Requirements Engineer (May 2017 - October 2017)

Graduate Engineering Intern (August 2016 - May 2017)

- Design for Six Sigma, Industrial Statistics
- Awarded internal trade patent for healthcare analytics application
- **Languages/tools used:** SQL, Tableau, R, Cognition Cockpit, Javascript/jQuery

Arizona State University

Graduate Research Assistant (February 2016 - December 2016)

- Empirical Mode Decomposition, On-Body Sensing, Electrocardiography
- Fellowship awarded by Dr Lee Hartwell (2001 Nobel Laureate)

NeoLight LLC
Circuit Design Intern (Jan 2016 - Apr 2016)
- Thermal, electrical testing and design

Brain Research Institute, UCLA
Undergraduate Research Assistant (Mar 2011 - August 2012)
- Neurorehabilitation Lab, Dr. S. Thomas Carmichael
- Researched BDNF for stroke recovery in mice
- Cryosectioned brain tissue in Leica 3050S cryostat
- Immunohistochemistry and fluorescence microscopy

EDUCATION
B.S., Neuroscience - University of California, Los Angeles

M.S., Biomedical Engineering - Arizona State University
- Master's applied project: Arrhythmia signatures with empirical mode decomposition (Advisors: Dr. Jeffrey LaBelle, Dr. Mark Spano, Dr. Heather Ross)

AWARDS
2018 Medtronic Beacon Award
2017 Medtronic Internal Patent #A000****
1st place, Mesa Community College Math Contest

CERTIFICATIONS
DRM/DFSS Green Belt (Medtronic, 2018)

INDEPENDENT LEARNING
Programming Languages Specialization (In Progress, Coursera)
Accelerated Computer Science Fundamentals Specialization (Coursera/UIUC)
Ultimate Rust 2 - Intermediate Concepts (Udemy)
Rust Fundamentals (Pluralsight)
HTML, CSS, and Javascript for Web Developers (Coursera)
Introduction to UI Design (Coursera)
Circuits and Electronics I: Basic Circuit Analysis (MIT OpenCourseware)
Discrete Mathematical Structures (Mesa Community College, Grade: A)
Calculus III (Mesa Community College, Grade: A)
Linear Algebra (Mesa Community College, Grade: A)
Differential Equations (Mesa Community College, Grade: A)