

Christopher Dieringer
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Objective:

To create world-class, purpose driven software for innovative products & research [1]

Pitch:

I am:

- An **enthusiastic** and curious engineer, [in constant pursuit of learning](#).
- A **systems thinker** with strong problem solving ability.
- Committed to designing excellent software, **professionally and personally**. [See my contributions](#), and [packages](#).

I began writing software almost twenty years ago. After I wrote my first app in Dr. Scheme (i.e. Racket), I was hooked. I began my GNU/Linux journey in early college, and scripted everything that I possibly could. My shell scripts and worksheet macros quickly evolved from small-time widgets into high impact code scheduling production jobs for a local business, even before graduation! I have been a student of CS now for over a decade, and there is no end in sight. I wrote internal business applications as a test/automation engineer for years, and focused on web full time since 2014. I am still active in the web space, with recent interests in static, type safe languages.

To learn more about me and my values, please see my website @ <http://cdaringe.com/about/>.

Work Experience:

:: *WalmartLabs (2018-current)*

:: *Engineering Manager, Principal Software Engineer*

- Managed three engineering teams, covering full vertical functionality for all mobile and web experiences for <https://www.walmart.com/lists>
- Developed cross-system support for adding subscription based products to walmart.com, namely mobile phone plans
- Developed platform for 200+ active web developers, consolidating Walmart web ecosystems into a to full stack monorepo

:: *Tripwire, Inc (2016-2018)*

:: *Senior Software Engineer*

- UI Architecture system owner—defined, taught, & implemented web-application best practices.
- Migrated monolithic architecture to services based architecture.
- Designed & implemented business functions into discrete containerized services in python, java, and nodejs.
- Drove organizational adoption and deprecation of architectural practices (RFC5545, BEM, container BKMs).
- Mentored junior engineers, delivered regular trainings.
- Delivered normal stream of customer facing features.

:: *The Mind Research Network, Albuquerque, NM (2014-2016)*

:: *Software Engineer*

- Developed decentralized computation system for running distributed analysis pipelines.
- Developed fully offline-capable native web-app for serving clinical assessments/questionnaires.

- Implemented automated testing suite, including cross-browser unit tests, back-end unit tests, and end-to-end selenium browser tests.
- Developed management tool suite for neurological research studies.
- Transitioned centralized server applications to distributed services model.
- COINSTAC project lead, Front-End development lead.

:: *LAM Research, Tualatin, OR (2012-2014)*

:: *Automation/Test Engineer*

- Developed multi-peer application to continuously regulate factory material demand (e.g., digital kanban).
- Developed package to automatically synchronize work-cell material assignment data between systems.
- Developed capacity reconciliation package to visualize and adjust work-cell utilization across manufacturing lines.
- Developed centralized eDMS implementation for engineering and factory community.
- Designed test processes and electro-mechanical fixtures for 30+ products across four product families.
- Developed mechanical sub-systems with core design teams, commonly involving wafer transfer systems.

:: *Novellus Systems, Inc., Tualatin, OR (2010-2012)*

:: *Manufacturing Engineer*

:: *Intel Corporation, Hillsboro, OR (2009)*

:: *Digital Health Group: Manufacturing Engineer*

Additional achievements, skills, & prior employment & truncated. Available on request.

Education:

Georgia Institute of Technology, 2015-2018

MS Computer Science, 2018

GPA: 4.0

Portland State University, 2012-2014

Equivalent, BS Computer Science (no capstone coursework)

GPA: 3.8

Oregon State University, 2005-2010

BS Manufacturing Engineering, BS Industrial Engineering, Business Minor

GPA: 3.92, Summa Cum Laude

Capstone: Automated Production Scheduling

- Developed software CAD package plugins for optimizing factory resource consumption. Integrated consumption data with work-cell capacity and sales demand to generate production schedules. Schedules were optimized to either maximize throughput or minimize lateness.

Publications:

[NIH] [1R01DA040487-01A1](https://pubmed.ncbi.nlm.nih.gov/28111111/): COINSTAC: Decentralized, Scalable Analysis of Loosely Coupled Data

[NIH] [2R01EB005846](https://pubmed.ncbi.nlm.nih.gov/28111111/): COINS Data Exchange: An open platform for compiling, curating, and disseminating neuroimaging data

Honors & Awards, Professional Activities, Leadership & Service, Misc Accomplishments:

Available upon request.

References available upon request:

Please visit my [website \(cdaringe.com/about\)](http://cdaringe.com/about) for additional details.