Christopher Dieringer
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Objective:
To create world-class, purpose driven software for innovative products, services, or research [1]

Work Experience:

:: The Mind Research Network, Albuquerque, NM (2014-Current)
.: Software Engineer
*.. Primary Tooling: nodejs, hapi, javascript, php, react, redux, angularjs, jquery, webpack, *nix, postgresql, nosql variants*
  • Developed fully offline-capable native web-app for serving clinical assessments/questionnaires.
  • Developed OS-native analytics program, providing decentralized computation and distributed analysis pipelines.
  • Implemented automated testing suite, including cross-browser unit tests, back-end unit tests, and end-to-end
      selenium based browser tests.
  • Developed management tool suite for neurological research studies.
  • Transitioned centralized server applications to distributed services model.
  • NodeJS and Front-End lead.

:: LAM Research, Tualatin, OR (2012-2014)
.: Automation/Test Engineer
*.. Primary Tooling: .net family, php, jquery, vanillajs, *nix, sharepoint, windows, mediawiki*
  • 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 business systems.
  • Developed capacity reconciliation package to visualize and adjust work-cell utilization across manufacturing lines.
  • Developed centralized eDMS implementation for engineering and factory community.
  • *nix system ops for above services.
  • 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

Secondary Tooling/Language Experience: java, python, c++, nginx, tdd/bdd, basic machine learning, computer networking
Additional achievements, skills, & prior employment & truncated. Available on request.

Education:

Georgia Institute of Technology, 2015-current
MS Computer Science, anticipated completion 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 plugin for assessing 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**: COINSTAC: Decentralized, Scalable Analysis of Loosely Coupled Data

Honors & Awards:
Hack PDX Schools - SendGrid Winner, improved notification and logging of 3D printer monitoring package (2014)
2x LAM Research Above & Beyond, Operations $100k+ cost reduction & PECVD "New Product Integration" (2013)
3x Novellus Above & Beyond, (1) PECVD "New Product Integration" & (2) Operations "Outstanding Support" (2012)
Burgess-Tektronix Award – Most Outstanding Senior (2010)
Oregon State University Honor Roll (2005-2010)
Oregon State University Diversity Achievement Award (Fall 2005-2009)
Callahan Engineering Scholarship Award (Fall 2007)
William D. and Ruth D. Roy Award (2007-2009)
Drucilla Shepard Scholastic Award (Fall 2005)
West Johnson and Elizabeth Johnson Lasselle Scholarship Award (Fall 2005-2008)
SME Myrtle & Earl Walker Award & Wayne Kay Award (2008, 2009)
Ida M. Crawford Scholarship Award (Fall 2007)

Professional Activities:
Core team member of the AmpersandJS front-end framework. http://ampersandjs.com/ (2015-Current)
Quelab Makerspace – Contributing Member (2015-Current)
Tech Meetup Regular: PDXNode/Python/Angular (2015-Current)
SME - Society of Manufacturing Engineers (2007-2014)
IIE - Institute of Industrial Engineers (2007-2010)

Leadership & Service:
St. Martins Homeless Shelter (2015-Present)
Handy - Portland technical trade volunteers (2013-2015)
3oClock People - SE Portland soup kitchen (2013-2015)
NCompass Project Committee Member (2012-2014)
NCompass community volunteer (2012-2015)
Imago Dei community volunteer (2012-2015)
Math Tutor: Pre-algebra through Integral Calculus (2005-2013)
Alpha Pi Mu Industrial Engineering Honors Society, President (2007-2010)
Doxology & Stone Soup Kitchen Volunteer (2008-2010)
Corvallis Church of Christ Charity Volunteer (2006-2009)
St. Vincent DePaul Volunteer (2001-2009)
MSCC Leader, Baja Mexico Volunteer Service (2000-2001)

Misc Accomplishments:
Designed 3D printer, RepRap deltabot-type. Published as OpenHardware, duplicated by many. http://reprap.org/wiki/COssel (2013)

References available upon request:
Please visit my website (cdaringe.com/about) for additional details.