ERIN BARTHOLOMEW

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[Profile]

History as a versatile, innovative, and analytical software developer with a desire for finding effective technical solutions to client problems. Fast learner with strong leadership and communication skills. Highly organized with over 6 years of professional experience.

[Education]

Masters of Science • Engineering & Policy Analysis (EPA)
Delft University of Technology
Faculty of Technology, Policy, and Management
Analytical approach to policy and decision making using several modeling methods
Expected Graduation: September, 2018 • Current GPA: 8.83

Bachelors of Science • Computer Engineering • with Distinction and Honors
University of Nebraska, Lincoln
Jeffrey S. Raikes School of Computer Science and Management
Graduated May, 2011 • GPA: 3.932

[Experience]

Delft University of Technology • Research Assistant • 8/2017 – Present
Built services to support automated image recognition of passing train cars with partner company
Used Java, OpenCV, Tesseract, JavaScript for service development

PointSource • Software Developer • 3/2015 – 7/2016
Leading iOS development expert at software consulting company
Partnered with external developers to design and develop web and hybrid mobile insurance app
Analyzed authentication solutions and provided recommendations and implementation of solution
Investigated and provided comparative study of indoor location solutions
Developed mobile apps using latest iOS technology, including WatchOS and tvOS

IBM • Software Engineer • 7/2011 – 2/2015
Developed frameworks to provide enhanced location support for iOS and Android platforms
Created mobile applications to demonstrate use of IBM's mobile focused cloud computing services
Served as scrum master for team focused on integrating IBM services with cutting edge iOS Apps

Designed and implemented generic interface to display XML-based content on DataPower Blueprint Pattern Console using HTML, JavaScript, and custom web widgets

Developed features for WebSphere Virtual Enterprise web console using Java, JavaScript, and HTML
Designed interface for dynamic clustering feature for a web based, mobile focused Liberty console
Worked with several customers to answer product questions and solve reported problems
Led efforts to ensure the WebSphere Virtual Enterprise console met IBM's accessibility requirements

Nebraska Global • Software Development Intern • 8/2010 – 12/2010 and 4/2011 – 6/2011
Worked for new startup software company on team of 12 software developers
Designed and developed time tracking plugin for Outlook using Microsoft programming technologies
Worked on design stages of a new product that maps relationships of entities in Microsoft Dynamics

IBM • Technical Intern, Extreme Blue Program • Summer 2010
Worked to create innovative solutions to increase adoption of an enterprise social network
Designed and implemented interface for polling widget using JavaScript, HTML, and web services

Garmin International • Software Engineering Intern • Summer 2008, 2009
Developed feature to enable Point of Interest routing on Oregon outdoor navigation product
Reworked and added features to several internal tools including USB device detection tool

Kansas State University • Research Assistant • Computer Science Department • Summer 2007
Worked on a team to update spillway erosion project for US Department of Agriculture
Helped facilitate robotics workshop for Excite! program to encourage middle school girls to study STEM

[Capstone Projects]

Masters Thesis Project *(In Progress)*
A comparative analysis of robust decision support methods
Focuses on multi-objective robust decision making and multi-objective robust optimization methods

Computer Engineering Senior Design
Capstone project for the computer engineering program
Developed wireless audio monitoring system for guitar, including integrated circuitry and web application

Jeffrey S. Raikes School Design Studio
Capstone project for Raikes School program to be completed in Junior and Senior years
Partner with technical company to develop real world solutions to solve cutting edge problems

IBM
Developed homepage for Lotus Connections mobile web solution using HTML and JavaScript
Work was featured at the opening session of a major IBM conference in 2010
Used agile development process and served as scrum master for team of 6 developers

Interact Inc.
Created a web-based visual application for creating automated phone response programs
Used mxGraph and Ext JS JavaScript frameworks and Java for the backend

[Academic Honors]

Excellence Scholarship Recipient, TU Delft
Regents Scholarship Recipient, University of Nebraska
Jeffrey S. Raikes School Scholarship Recipient, University of Nebraska
Honors Program Scholarship Recipient, University of Nebraska
Dean's list • All Semesters, University of Nebraska
Outstanding Undergraduate Senior • Computer Engineering

[Coursework]

Policy Analysis: Multi-Actor Analysis, Game Theory, Social Network Theory, Cognitive Mapping, Intercultural Management, Political Decision Making Theory
Modeling: Discrete (Simio), Agent-Based (NetLogo), System Dynamics (Vensim), Exploratory Modeling Analysis, Simulation Masterclass, Data Analytics
Math: Differential Equations, Calculus-Based Statistics, Numerical Analysis, Matrix Theory, Discrete Logic
Business: International Strategic Management, Business Systems Analysis, Finance, Accounting
Computer Science: Software Engineering, Algorithms and Data Structures, Computer Architecture,
Electrical Engineering: Electronics and Circuits, Digital Systems, Digital Logic Design

[Extras]

Commissioner of Education • First Board of Dentatus Student Advisory Chapter
Student Representative • Jeffrey S. Raikes School Corporate Advisory Board
Computer Science and Engineering Department Student Advisory Board

Certified Scrum Master • Certified Agile Software Developer