ALEXANDRIA HORNE

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EXPERIENCE

2018 - 2020
SOFTWARE ENGINEER, GE AVIATION

Member of DevOps team that applies principles of SDLC to develop and deploy high-quality cybersecurity software using best practices and Agile methodologies. Tasks include: relational database management and full stack development utilizing JavaScript (React, Angular), HTML, CSS, TypeScript, NodeJS, Python, and SQL.

2014 – 2018
SENIOR COMPUTER PROGRAMMER ANALYST, CINCINNATI AREA GIS (CAGIS)

Responsible for designing, testing, deploying and maintaining all aspects of the CAGIS enterprise GIS and permitting system. Also tasked with translating business processes and workflow into functional requirements for system design.

2012 - 2014
GEOSPATIAL TECHNICIAN, WOOLPERT, INC.

Tasked with creation and delivery of final LiDAR products including: hydro flattening, ortho-rectification, LiDAR cleaning and calibration, creation of digital elevation models and IMG/ArcGrid products as well as technical documentation.

EDUCATION

JUNE 2011
MASTER OF ARTS, UNIVERSITY OF CINCINNATI

Geography major with GIS focus.

MAY 2008
BACHELOR OF SCIENCE, PURDUE UNIVERSITY

Environmental Science and Agriculture major with a minor in Anthropology.

SKILLS

- Backend development: Node, Python, SQL, C#, .NET
- Databases: SQL Server, MySQL, PostgreSQL, Oracle
- Microsoft Office applications, Visual Studio
- ESRI ArcGIS, ERDAS, MicroStation, SAP Business Intelligence platform, Crystal Reports, Accela Automation Platform
- Frontend development: JavaScript (React/Angular), TypeScript, HTML5, CSS
- SharePoint, GitHub, Rally, Agile, SDLC, DevOps
- Linux, AWS and Windows Server environments
- Requirements gathering and stakeholder engagement

SERVICE TO THE COMMUNITY

• Board member, Audubon Miami Valley
• Volunteer website developer for Heartland GIS & Ohio Soybean Council, http://precisionagreviews.com/
• Volunteer website developer for Nature's Nursery Center for Wildlife Rehabilitation and Conservation, https://www.natures-nursery.org/

CERTIFICATIONS
• Certified Cloud Practitioner, Amazon Web Services, 2019
• Certified Geographic Information Systems Professional (GISP), GIS Certification Institute, GISCI, 2018
• Remote Pilot – Unmanned Aircraft Systems (FAA Part 107), Federal Aviation Administration, 2018
• Licensed Private Airplane Pilot, Federal Aviation Administration, 2007

PROFESSIONAL PRESENTATIONS
• Cincinnati's GIS Based Customer Service Request System: 15 Years of Success, 2017 Kentucky GIS Conference
• Cincinnati's GIS Based Customer Service Request System: 15 Years of Success, 2017 Ohio GIS Conference
• Farming of the Future: UAV Systems in Agriculture, 2017 Miami University Speaker Series: "Drones: Tool, Toy, or Threat"
• A New Generation of Agriculture, the Rise of GIS and Precision Farming, 2016 Ohio GIS Conference

Teaching Experience:
• Adjunct Instructor, Remote Sensing, Clark State Community College, 2014
• Adjunct Instructor, Geography, Indiana University East, 2011 - 2012
• Graduate Research and Teaching Associate, Geography Department, University of Cincinnati, 2010 – 2011
• Graduate Research/Teaching Associate, Department of Natural Resources, The Ohio State University, 2008 - 2010

Professional Development:
• Certified Information System Security Professional (CISSP) Bootcamp, October 2019 (40 hours)
• C.E.R.T Training, Kentucky Emergency Management Agency, March 2018 (24 hours)
• Parcel Fabric Hands-on Workshop, Bruce Harris & Associates, September 2016 (3 hours)
• ESRI Web App Builder Workshop, OH URISA, May 2016 (3 hours)
• Introduction to Geoprocessing Scripts Using Python (ver 10.2), ESRI, February 2015 (24 hours)
• Building Applications Using the ArcGIS API for JavaScript (ver 10.2), ESRI, July 2014 (16 hours)
• Introduction to Geoprocessing Scripts Using Python, ESRI, June 2014 (24 hours)
• Programming ArcGIS Desktop Using Add-Ins, ESRI, May 2014 (16 hours)
• SAP BusinessObjects 4.1 Information Design Tool, Dunn Solutions Group, October 2014 (40 hours)
• SAP BusinessObjects Web Intelligence 4.1, Dunn Solutions Group, October 2014 (40 hours)
• Introduction to Oracle SQL, SRISYS, Inc, July 2014 (24 hours)
• GIS User Group: Intro to ArcGIS Online, ESRI, May 2014 (4 hours)
• Building Story Maps in ArcOnline, Cincinnati GIS User Group, July 2013 (2 hours)
• Do-It-Yourself Geo Apps!, ESRI, July 2013 (5 hours)

AWARDS
GE Aviation:
• GE Cybersecurity Superstar Award, October 2019
• GE Impact Award- UC Cyber Event, May 2019
• GE Impact Award- March of Dimes, April 2019

CAGIS Team/City of Cincinnati:
• Technology Solutions Award, "Fix it Cincy!" mobile app, Public Technology Institute (PTI), 2017
• Technology Solutions Award, "Cincy Code Enforcement" website, Public Technology Institute (PTI), 2017
• Technology Solutions Award, "DPS Citation" mobile app, Public Technology Institute (PTI), 2017
• Digital Cities Survey Winner, 2017
• Tech Team of the Year Finalist, Business Currier, 2017
• Navigator Award for Government Innovation, Route Fifty, 2016
• ESRI Special Achievement in GIS (SAG) Award, 2016
• Digital Cities Survey Winner, 2016
• City Manager's Award for Excellence, 2016

Other Awards:
• Working at Woolpert (WOW) Outstanding Performance Award, 2013
• Excellence in Science Award (AAAS), 2010
• Engineering Project in Community Service (EPICS) Outstanding Leadership Award, 2008