

Charles W. Koch

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SKILLS

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| Software Engineering | Platforms: Windows, macOS, Linux, Web Languages: Python, Java, C/C++, SQL, HTML/CSS, PHP, Javascript Frameworks: Django, NodeJS, Vue.js, Spring, Hibernate, jQuery, Polymer |
| Graphic & Web Design | Vector & raster graphics, website design, page layout, web programming |
| Music & Sound Production | Music arrangement, recording, digital mixing, and digital mastering |
| Digital Video Production | Editing and post-production on digital film and digital video projects |
| Teamwork & Leadership | Collaboration for design, implementation, and installation of projects of many disciplines Management of small design & engineering teams as well as training employees |

WORK EXPERIENCE

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| Senior Project Engineer | Mountain Leverage, Grafton, WV | November 2021 - Present |
| <ul style="list-style-type: none">Lead architect of the OpsWare Connect middleware solution<ul style="list-style-type: none">Manage a small team (4-6 developers) to develop, test, and continually improve the OpsWare Connect platformResearch cutting-edge technologies and industry standards to create a powerful and stable productFull-stack development of a web application, backend server, and voice-directed applicationSurvey customer sites and meet potential customers to implement new systems and improve existing onesIdentify project requirements and write design specification documentsProvide leadership, mentoring, and technical expertise to other engineersAll previous responsibilities at Speech Interface Design (company was acquired by Mountain Leverage in late 2021) | | |
| Senior Project Engineer | Speech Interface Design, Pittsburgh, PA | November 2014 - November 2021 |
| <ul style="list-style-type: none">Designed and modified software to interface between voice recognition systems and warehouse management systems<ul style="list-style-type: none">File-based and message-based data mapping in various formats (XML, CSV, flat files, etc.)Coordinate data and logic between voice-operated devices and serversCreate and maintain relational database schemas and dataProvide powerful and efficient GUI for visual interaction with voice systemsCreated and maintained several in-house applications and tools used by clients, partners, and employees<ul style="list-style-type: none">Designed, developed, and maintained data analytics application for client voice systemsScripted tools for partners and employees such as a log parsing/analysis tool and data generation toolsIntroduced new processes and tools such as code coverage and test-driven developmentInstalled and implemented voice software systems at customer sites<ul style="list-style-type: none">Remote and on-site installations and implementations across the United States and CanadaCoordinated with networking and other IT personnel as well as operational managers and site directorProvided support and training to users of the voice systems<ul style="list-style-type: none">Patches, upgrades, troubleshooting and training provided on-site and remotelyLead on-site user acceptance testing and end user training on voice devices and software | | |
| Technical Consultant | University of Pittsburgh Technology Services | August 2013 - November 2014 |
| <ul style="list-style-type: none">Provided technical support and service to over 40,000 students, faculty, and staffResolved software and networking issues on Windows, Mac OS X, Linux, iOS, and Android devicesEstablished relationships with customers and helped educate them on proper maintenanceEncouraged teamwork and communication with coworkers to improve service and workplace | | |

EDUCATION

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| Bachelor's Degree in Computer Science | University of Pittsburgh | December 2014 |
| <ul style="list-style-type: none">graduated <i>Magna Cum Laude</i> | | Cumulative GPA: 3.342 |