Jason Cheng

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Education History

Iowa State University, Ames, Iowa   Graduating May 2020
    » *BS Electrical Engineering specializing in Computer Engineering with a Minor in French Language*
    » Senior Year*,* Major GPA 3.15, Overall GPA 3.0
University of Northern Iowa, Cedar Falls, Iowa   Jan. 2015 - May 2016
    » *Non Degree Computer Science,* GPA 3.700
    » Major Courses - Data Structures, Discrete Structures, Computer Organization

Work Experience

The Boeing Company, Renton, WA – *Flight Simulation Support for New Programs*   May 2019-Present
    » Automated creation of configuration and messaging functions through Python and Lua scripting
    » Developed networking solutions to mock airplane configurations for local development work
    » Modified and debugged airplane applications to work in simulated environments
    » Provided engineering support and troubleshooting to international clients for the 777X simulation group
Spreetail, Lincoln, NE - *Software Engineer (Intern Conversion to Part time)*   May 2018-May 2019
    » Creating new costing system using complex SQL scripting to cost over $800K of resell items
    » Developed live analytics and reporting with New Relic and Kibana
    » Utilized Entity Framework to create and manage SQL databases for comprehensive inventory tracking
    » Maintained custom accounting software through a combination of SQL and C# support
Workiva, Ames, IA - *Software Development Intern*   May 2017-August 2017
    » Developed internal product release software as part of the release management team
    » Developed automated release processes with Python and Javascript in a full stack methodology
    » Extensively worked with Google App Engine and SQL Databases for release tracking
    » Lead transition from SQL to Firebase databases

Campus Involvement - Iowa State University

PrISUm Solar Car – *Electrical Director and Strategy Manger*   August 2016 - Present
    » Lead and organized project groups for electrical hardware and software projects as Electrical Director
    » Developed and organized training sessions to teach advanced circuit skills
    » Coordinated partnerships with industry partners to implement industry practices and knowledge
    » Leveraged data analytic techniques to obtain efficiency numbers to develop solar car racing strategies

Volunteer Experience

FIRST Robotics   September 2013-Present
    » Organized and ran robotics competitions attracting over 100 participating students, including technical
      workshops on software debugging and mechanical design in America and China
        »   Diagnosed and repaired communications and control systems issues in high stress
environments
University of Northern Iowa Robotics/Electronics Lab   June 2014-July 2016
    » Lead workshops for high school aged students on technical skills such as programming and soldering
    » Integrated electronic and mechanical systems on real world problems, including solar irrigation systems

Skills & Qualifications

- Professional experience with Java, Python, and the C family of languages
- Experienced DevOps engineer, providing pipeline and release environment support across companies
- Experience with Agile development and software version control, using Jira, Git, Bitbucket, and others
- Advanced software skills, including Altium, Origin Graphing, PTC Creo, and Multisim