

Ryan Pals

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<https://ripals.github.io>

(319) 930-2308

EDUCATION

Iowa State University

Bachelor of Science in Computer Engineering

Ames, IA

Aug. 2015 - Dec. 2018

- Final Cumulative GPA 3.35, Junior/Senior GPA 3.72
- Supplemental Focus Area in Cyber Security
- Awards and Scholarships:
 - College of Engineering Dean's List Fall 2017, Spring & Fall 2018
 - Award for Competitive Excellence
 - Cardinal Leadership Scholar Award
 - College of Engineering Scholarship (Boeing Company Award)

EXPERIENCE

Hobu, Inc

Software Development Intern

Iowa City, IA

May 2018 - Aug. 2018

- Utilized Amazon Web Services technologies to create a cloud application that allows user-friendly utilization of existing company maintained open-source data processing software
- Contributed to GitHub documentation of open-source point-cloud data processing workflow
- Reviewed code changes and incorporated peer feedback as part of company code review process

Rockwell Collins

Technical Intern Senior, Advanced Technology Center

Cedar Rapids, IA

June 2017- Aug. 2017

- Calculated anti-jamming performance of various GPS receiver designs as consultancy project
 - Extended existing simulation code to match client's specification
 - Assisted management in creation of report for outside firm
- Analyzed performance and accuracy of existing products using MatLab, eventually leading to discovery of a bug in a fielded system
- Extended existing Linux C codebase to allow GPS device to support new standards

Technical Intern Junior, Supply Chain Quality Assurance

June 2015 - Nov. 2016

- Developed a tool that helps collect and organize supplier performance data using Visual Basic for Applications and native Excel functions
 - Automated the generation of executive reports and presentations from this data
 - Communicated with future users to obtain feedback for continuous improvement of development
- Automated extraction of data from SAP database software to create charts and graphs for presentations

SKILLS

Languages

C/C++, JavaScript, Python, Java, Bash, MatLab, VBA

Software/Technologies

GNU/Linux, vim, Microsoft Excel, Docker, AWS (including EC2, S3, DynamoDB, CloudFormation), Node.js/Express, WebGL, Django