

# Ryan Pals, B.S.

Email [ryanjpals@gmail.com](mailto:ryanjpals@gmail.com)

Phone (319) 930-2308

Portfolio [rjpals.github.io](http://rjpals.github.io)

Github [github.com/rjpals](https://github.com/rjpals)

LinkedIn [linkedin.com/in/rjpals](https://linkedin.com/in/rjpals)

## EDUCATION

### Iowa State University

*Bachelor of Science in Computer Engineering*

Ames, IA

Aug. 2015 - Dec. 2018

- Cumulative GPA 3.31, Junior Year GPA 3.78
- Supplemental Focus Area in Cyber Security
- Awards and Scholarships:
  - College of Engineering Dean's List Fall 2017, Spring 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