

# ROBERT SHELTON, CSM

## Developer & Systems Engineer

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## EXPERIENCE

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### Software Intern

#### Excella Consulting

📅 Jan 2017 – Present    📍 Blacksburg, Virginia

- Created academic website based on REST API pattern and SOLID principles with Angular 6, ASP.NET Core, Entity Framework, and PostgreSQL.
- Dockerized Node.js server and Ionic client to Heroku production environment and assisted onboarding new team members through virtual machine and Git environment setup on hybrid mobile app.
- Completed Certified Scrum Master (CSM) training.

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### Inventory Manager

#### Micah's Backpack

📅 Sep 2017 – Present    📍 Blacksburg, Virginia

- Responsible for \$3000 worth of weekly inventory purchases.
- Lead coordinator between suppliers and volunteers to assure quantity and quality of meal output.
- Developed user friendly Google Sheet to automate the collection of performance statistics and make daily usage faster and more accurate.
- Standardized practices through development of SOPs for next generation contributors.

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### Software Intern

#### Lightbulb Machine

📅 Jun 2018 – Sep 2019    📍 Charlottesville, Virginia

- Worked on 4 different projects leveraging React and Meteor.
- Added credit card functionality to web platform receiving and distributing funds for/to 100+ non-profits.
- Created a methodology for testing OCR software which utilized custom JavaScript to statistically evaluate translation accuracy of typed and hand-written text.
- Performed competitive landscape analysis for two new product offerings consisting of a SAAS application and a data centered app to aid philanthropic investment.

## RESEARCH

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### Sustainable Biomass Feedstock Logistics

- Created and educated team members in software architecture for web-based decision support tool integrating communicative Gurobipy and Simpy optimization algorithms to a Vue.js frontend via REST API.
- Promoted the creation of tangible project deliverables following the principle of vertical slices of functionality and lead the design process for first generation user interface.

## EDUCATION

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### Virginia Tech

Industrial & Systems Engineering 2020

3.73 Cumulative GPA

## CODING

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**JavaScript:** 2 years on-site experience using a mix of Node, React, Angular, Vue, and Meteor.

**Python:** 1 year on-site experience with Flask for REST API. Tertiary experience with Gurobipy, Simpy, and CPLEX for optimization problems.

**C#, C++, Julia:** Additional languages used in class and at work but not prominently.

**Top Tools:** Git, Docker, Travis, and Heroku

## COMMUNITY

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### Data Science for Social Good Workshop

- Interviewed experts in mechanism design and created video content to educate others.
- Expanded network and attended lectures addressing health care, global power infrastructure, auction algorithms etc.

### Open Source Dev Conference

- Presented on time management and the pomodoro technique.
- Invited afterward to re-give talk to Radford University computer science club.

### 100 Girls of Code

- Instructed camp members in introductory HTML, CSS, and JS.
- Inspired students to embrace a positive can-do attitude.

### Children's Museum of Blacksburg

- Managed sign-in desk and assisted in educational play for kindergarten through elementary school aged children.
- Lead physics experiments for groups of 100+ 1st grade students.

### Residential Leadership Community

- Lead NRV train project with the Blacksburg Partnership.
- Created student documentary to promote extended train lines to Blacksburg area.