

# David Herszenhaut

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## Experience

### Automated Logic, Software Engineer

September 2021–Present

- Developed a custom Java annotation processor that reduced system startup time by over 20 seconds
- Worked with product managers to draft and complete user stories for a BACnet-based HVAC system
- Designed CI pipeline to analyze codebase for potential defects and security vulnerabilities using Coverity
- Created a file encryption system to securely store customer license files and prevent unauthorized editing
- Implemented a functional testing setup running on TeamCity with over 90% code coverage
- Conducted research on the life expectancy of onboard flash memory to be installed on BACnet controllers

### Zuora, Software Engineer

March 2020–September 2021

- Implemented Level 3 credit card payment processing for payment gateways which reduced interchange fees by over 1% per transaction
- Built integrations for alternative payment methods to be used by payment service providers (such as SEPA for Stripe and payment tokens for Adyen) using Apache Velocity and REST APIs
- Designed automated unit test plans with over 85% code coverage to catch errors in development and prevent regressions in production
- Published customer-facing technical specification documents with the support of product management
- Collaborated with customer support to diagnose and resolve customer issues in a timely manner

### Anodot, Software Developer Intern

June 2019–August 2019

- Developed new pages in existing web application using React, Redux, and Node.js
- Improved administrator workflow by introducing new REST API endpoints for database operations
- Designed user-friendly data visualizations with Highcharts to display live database usage information

### Georgia Tech Research Institute, Student Researcher

March 2018–July 2018

- Built a Django web application to demonstrate healthcare research application's proof of concept

## Projects

**Pokédex** ([demo](#), [code](#)) *A front end for PokéAPI where people can see details about their favorite Pokémon*

- Developed a single-page application using TypeScript, React, Tailwind CSS, and Headless UI
- Created a CI/CD workflow to automatically deploy newly merged code to the live demo site

**rollgraph** ([demo](#), [code](#)) *A website that creates data visualizations based on simulated dice rolls*

- Developed a single-page application using TypeScript, React, D3.js, and Highcharts
- Implemented GitHub Actions workflows to automatically review pull requests with Jest, ESLint, and Prettier

**SmarTrek** ([code](#)) *A web application that shows you the safest walking routes using NYC Open Data statistics*

- Architected a responsive, single-page application using React, React-Bootstrap, and the Google Maps API

**OpenEval** ([code](#)) *An anonymous survey application for Georgia Tech professors to gather student feedback*

- Designed the front-end interface for the application using Handlebars, HTML5, and CSS3

## Skills

- **Programming Languages:** Java, JavaScript, Python
- **Libraries/Frameworks:** React, Redux, Node.js, D3.js, Highcharts
- **Tools:** Git, Postman, Perforce, Wireshark, Visual Test Shell for BACnet
- **Spoken Languages:** English (Native), Portuguese (Conversational), Spanish (Beginner)

## Education

Georgia Institute of Technology

December 2019

- Bachelor of Science in Computer Science, Major GPA: 3.74