

Amherst, MA  
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# Dominic Rutkowski

dominicrutkowski.me  
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## Experience

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Bio::Neos

Coralville, IA

Software Development Intern

Jun 2018 – Aug 2021

- Contributed to an open-source Unix backup system
  - Designed a web application to monitor existing backups and current backup progress
  - Implemented an email notification system to update users about backup failures and statuses
  - Wrote a script to change user passwords and permissions, reducing manual SQL queries by 100%
  - Technologies: JavaScript, Node.js, Express.js, SQLite, HTML, SCSS, Docker
- Contributed to a laboratory inventory management system for the Iowa Institute of Human Genetics
  - Created a dynamic project request form to eliminate over 50% of the lab's data entry workload
  - Added support for more complex workflows and automatic validation of those workflows
  - Technologies: PHP, Drupal 7, MariaDB, Docker
- Designed user interfaces based on client and developer feedback
- Met with clients to discuss needs and address issues
- Mentored other interns and completed code reviews

Iowa City Boys Baseball

Iowa City, IA

Umpire

Apr 2017 – Jun 2018

## Education

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University of Massachusetts Amherst

Amherst, MA

Pursuing B.S. in Computer Science and Mathematics (double major) (4.000 GPA)

Sep 2021 – May 2025

- Spring 2022 coursework: Computer systems principles, discrete math, linear algebra
- Completed coursework: Data structures, programming in C, multivariable calculus
- Extracurricular activities: UMass Robotics, UMass ACM, UMass Machine Learning
- Member of the Commonwealth Honors College

Iowa City West High School

Iowa City, IA

Diploma with Highest Honors (4.53 GPA)

Aug 2017 – May 2021

## Software Projects

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PixelHeart (HackMann 2020 Online Hackathon)

- Developed a web application to raise money for nonprofits by selling space on a blank, collaborative canvas
- Technologies: JavaScript, Node.js, Express.js, MariaDB, JWTs, HTML, CSS, Stripe API

SMSSage (2019 ISE Coding Garage)

- Developed a cross-platform messaging app with a built-in snake game
- Technologies: JavaScript, Node.js, Express.js, Socket.IO, MongoDB, JWTs, React Native

## Technologies

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Proficient: Java, JavaScript, Node.js, Express.js, HTML, CSS, Git, REST APIs, JSON

Familiar: PHP, C, C++, Python, SQL, Docker, Unix, Drupal