

# NICHOLAS BECKER

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I am a programmer helping companies migrate between generations. My experience with computer operating systems, eagerness to learn and share knowledge, and creative problem-solving skills deliver value to clients worldwide. Let's connect to make your mainframe more magical.

## PROFESSIONAL EXPERIENCE

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The Magic Mainframe, Cedar Rapids, IA Feb 2025 – Present  
**Founder**

- Provided mentoring and education to humans working with IBM Z mainframe computing systems.
- Provided consulting services to companies utilizing IBM Z mainframe computing systems.

Trident Services, Capitola, CA (remote) Aug 2024 – Jan 2025

**Senior Software Engineer**

- Developed and tested the zOSEM product for z/OS.
- Retrofitted a web interface on top of an existing ISPF/REXX frontend application for zOSEM.
- Provided help desk and consulting services to clients in the government and banking industries.

IBM, Rochester, MN June 2015 - June 2024

**Advisory Software Engineer**

- Developed and tested the batch scheduling component of z/OS.
- Provided support and fixes for field-reported problems.
- Gained a deep understanding of IBM mainframe operating systems and mastered mainframe languages and tools.

**Achievements**

- Selected to attend IBM Tech 2023, an exclusive event for high-performing IBMers.
- Promoted to Staff Software Engineer in February 2017 and to Advisory Software Engineer in May 2021.
- Received an IBM innovation award for implementing the IBM Network Job Entry (NJE) protocol in python.
  - Discovered and tested fixes for critical security vulnerabilities in IBM's implementation of NJE over TCP/IP.

## EDUCATION

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University of Iowa, Iowa City, IA Aug 2011 - May 2015

**B.S. Mathematics, B.S. Computer Science**

- Awards: Advantage Iowa Scholar, Dean's List
- GPA: 3.21
- Advanced Coursework: Programming Language Concepts, Operating Systems, Theory of Computation, Artificial Intelligence, Compiler Construction
- Tutoring: Tutored students in fundamental and intermediate computer science courses.

IBM Master the Mainframe Competition Spring 2012, 2013, 2014

**Prize Winner - 2012 and 2014**

- Participated in a nationwide competition among high school and college students.
- Gained experience working on enterprise computing systems.

## SKILLS & OTHER

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Programming Languages: IBM HLASM, IBM PL/1, IBM LE C, IBM Metal C, ISPF/REXX, Python, Javascript

Other Languages: JCL, JSON, YAML, XML, HTML, CSS

Operating Systems: z/OS, z/VM, CMS, UNIX-based OS's, Consumer OS's

Specialized Tools: MVS/JCL utilities, ISPF, IPCS, SDSF, SPA, CMVC, SCLM, UNIX tools/utilities