

# John Casey “Nick” McDonough

Coder / Musician / Perpetual Autodidact

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## PROFESSIONAL EXPERIENCE

### Software Engineer @ SecondSight Data Discovery | 2021 - 2022

- Using Node.js, developed a process for normalizing object properties, storing each object in a PostgreSQL-enabled database, and retrieving the data to be injected into HTML templates
- Worked within the Amazon Web Services suite - primarily using Lambdas within Step Functions for process flow, SQS and Elasticache to pass data between processes, and S3 and CloudFront to store and serve the HTML pages
- Assisted with optimizing and scaling database calls and HTML injection process, reducing runtime from 20 hours down to 6 hours at a production scale of over 5 million records/day

### Software Development Training Assistant @ Eleven Fifty Academy | 2021 - 2022

- Worked with students to facilitate understanding of core OOP coding concepts, API development, and full stack flow within the C# .NET Framework
- Helped students learn how to debug and research their errors/issues efficiently
- Assisted in maintaining a +95% pass rate for students in the program

### Mortgage Escrow Administrator @ Allied Solutions | 2019 - 2021

- As the primary point of contact for several high-profile mortgage lenders, ensured timeliness and accuracy of daily escrow reports
- Subject matter expert for escrow remittance address database, in charge of maintaining current lender address books and onboarding process for new lender clients
- Reduced keying errors 80% by streamlining procedures and working with application developers to remove duplicated/inactive/incorrect mappings

### Insurance Processor II @ Allied Solutions | 2018 - 2019

- Maintained compliance with lender particulars as well as state/federal insurance regulations by accurately keying information from insurance documents to corresponding loan files
- Assisted with designing best practice guides and quality assurance procedures
- Consistently maintained 100% accuracy and +200% documents-per-hour metric on all QA audits

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## VOLUNTEER EXPERIENCE

### Web Designer & Full-Stack Engineer @ KPop Indiana | 2022 - Present

- Building a web app for the KPop Indiana admin team to centralize and streamline membership information, event planning, and expense tracking
- Gaining experience with new technologies such as React, Docker, Kubernetes, and Nginx
- Improving upon existing knowledge of API services and web technologies to single-handedly build, test, and deploy a full-scale app for a production environment

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## EDUCATION

### Eleven Fifty Academy - Software Development Program | 2020-2021

24-week immersive learning program for Software Development taught with industry-guided curriculum, real-world project-based learning, and over 500 hours of logged coding time and training

### Indiana University-Purdue University Indianapolis | 2013-2018

24 credit hours of coursework under the schools of computer science and informatics