

# Eric Newcomer

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## EDUCATION

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### California Polytechnic State University, San Luis Obispo

June 2021

BS, Computer Science, GPA: 3.5

San Luis Obispo, CA

- **Relevant Coursework:** Data Structures, Design and Analysis of Algorithms, Object Oriented Programming, Functional Programming, Software Engineering, Computer Architecture, Systems Programming, Discrete Structures, Artificial Intelligence, Computer Vision, Operating Systems, Theory of Computation, Statistical Computing in R, Bioinformatics

## EXPERIENCE

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### NBCUniversal

June 2020 – August 2020

Software Engineer Intern, Development Center of Excellence Team

Universal City, CA

- Developed a serverless, cloud-native API reporting program that reduced reporting costs by 50%, using Python and Lambda
- Created internal API error alerts using Python, API Gateway, CloudWatch Logs, S3, Lambda, and SES

### NBCUniversal

June 2019 – August 2019

Software Engineer Intern, Filmed Entertainment Technology Team

Universal City, CA

- Spearheaded development of the new NBCUniversal Internships website using React, HTML, CSS, and Heroku
- Developed an internal film request web application for managing film requests using C#, HTML, CSS, and JavaScript

### Micro-Vu

June 2018 – January 2019

Software Engineer Intern & Co-Op

Windsor, CA

- Developed an interactive city map on company website using Node.js to showcase 30+ Micro-Vu suppliers around the world
- Created a tool management web application, which mapped tools to barcodes and automated the tool ordering process
- Implemented an employee time-off management web application for company use, using Django, HTML, CSS, and JavaScript

## PROJECTS

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### Kyrgyzstan School Safety Project

September 2020 – December 2020

AI/ML Developer, Global Program for Safer Schools Team

San Luis Obispo, CA

- Helped develop a convolutional neural network image classifier that assessed the safety of school buildings in Kyrgyzstan
- Implemented data augmentation on our dataset to improve our model's performance by 10% across multiple classification types
- Wrote and submitted project paper that outlines features, system design, and more, to the CSU Computer Science Conference

### Hack4Impact

January 2018 – Present

National Co-Director of Engineering & Cal Poly Co-Executive Director

San Luis Obispo, CA

- Direct engineering initiatives at Hack4Impact, a student-run 501(c)3 organization that builds software for nonprofits
- Lead chapter growth initiative, helping organization expand to over 900 members across 11 different universities
- Oversee all initiatives at Cal Poly chapter, including developer education, recruitment, client sourcing, and outreach

### SLO Botanical Garden Volunteer Management System

November 2019 – June 2020

Tech Lead & Software Developer

San Luis Obispo, CA

- Developed web application for SLO Botanical Gardens nonprofit to reduce volunteer tracking time by 60%
- Implemented user authentication, user profile editing, and volunteer data CSV exports
- Conducted code reviews with team and lead weekly sprint meetings with development team of 4 people

### CASA Advocate Form Tracker

November 2018 – June 2019

Software Developer

San Luis Obispo, CA

- Developed web application for CASA to track and record vital information for over 500 CASA volunteer advocates
- Added email confirmation service and e-signature signing feature, allowing volunteers to sign documents electronically

## SKILLS

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- **Languages:** Python, Java, C, JavaScript, HTML, CSS, C#, Racket, SQL
- **Frameworks & Libraries:** React, Django, Node.js, Express.js, Next.js, MERN, Pandas, NumPy, TensorFlow, Keras
- **Tools:** Unix, Linux, Git, GitHub, AWS (Lambda, API Gateway, S3, EC2, SNS, CloudWatch), Postman, JIRA