

## Christian Tobin

San Marcos, California

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### EDUCATION

Cal State University San Marcos

Bachelor of Science **Computer Science** | May 2022

### PROFESSIONAL EXPERIENCE

**FLUIDRA** | Fluidra North America | May 2021 – Present

#### Lead Cloud Engineer and Designer

- Led the offshore engineering team in collaboration with AWS Solutions Architects to conceive and develop the next generation of Pool Automation Systems. These systems leveraged edge computing to compute, schedule, and train machine learning models, enhancing the Pool/Spa experience. Key technologies used: **AWS Greengrass, Domain Driven Design, AWS Sagemaker, IoT Core, ApacheMQ, Angular.**
- Spearheaded the creation and maintenance of CI/CD Pipelines for Infrastructure as Code various projects, including those for Mobile Apps and APIs. Tools used: **Jenkins, GitHub Actions, CDK, and Ruby**
- Designed and deployed serverless microservices that respond to messages from IoT devices - facilitating data transfer, command and control, and push notifications to the mobile app. Technologies involved: **Typescript, Lambda, API Gateway, Novu**
- Led the optimization of event systems by replacing redundant and inefficient processes with specialized, cost-effective **IoT Core** Rules triggers. Resulted in a remarkable 500% reduction in monthly spending.

### KNOWN TECHNOLOGIES

- **Lambda, API Gateway, IoT Core, Kinesis, S3, VPC, EC2, RDS, DynamoDB**
- **Typescript, NodeJS, Java, Python**
- **Machine Learning, Prompt Engineering**
- **GitHub Actions, Jenkins, CDK**
- **Flutter, React, Swift, Kotlin, Figma**
- **Git, Unit Testing, Webpack, Serverless**

