

# John Cullen

## SOFTWARE ENGINEER

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## TECHNICAL SKILLS

### PROFICIENT WITH:

JavaScript (ES6), Python 3, Node.js,  
Express, React, HTML5, CSS3/Sass,  
GraphQL, MySQL, PostgreSQL, MongoDB,  
Git, Linux, Docker, AWS

### OTHER TECHNICAL SKILLS:

- Gave insight into the technical overhead of requested features and scope enhancements; clearly communicated challenges and blockers to clients and project managers
- Experience reading white papers on different ML libraries for both accuracy and speed; along with in-depth testing of those libraries
- Knowledge of cybersecurity best-practices and effective ways to patch vulnerable systems

### SOFT SKILLS:

- Helped project manage software applications on deadline for release
- Worked with R&D teams, other software engineers, UI/UX designers, and project managers remotely
- Presented live in-person product demonstrations to clients and investors with technical explanation

### TOOLKIT:

- Redux, Express, Jest, React Router, ChartJS, OAuth, Yarn, Firebase, Twilio, PixiJS
- Flask, OpenCV, PIL, NumPy, FFmpeg
- VS Code, Postman, Jira/Trello, Agile Development

## EDUCATION

### SANTA MONICA COLLEGE (2018)

1. **Computer Science, AS** | Calculus 2, Data Structures, Object-oriented Programming, Database Systems, Operating Systems, Fundamentals of Logic
2. **Computer Programming, AS** | Assembly Language, C, C++, PHP, Java, JavaScript

### UNIVERSITY OF CALIFORNIA, SAN DIEGO (2014)

3. **Political Science, BA** | Wrote research papers, studied polling data using SPSS, public speaking experience

## WORK EXPERIENCE

### DOGTOWN MEDIA | SOFTWARE ENGINEER

Worked on projects for National Eczema Association, Bristol Myers Squibb, When Georgia Smiled, National Sleep Foundation, and an R&D venture capital firm

- Optimized searching and clustering algorithms of large multidimensional datasets using NumPy; analyzed time and space complexity as well as accuracy of ML models
- Routinely trained and retested ML models housed on AWS servers for measurable accuracy improvements; built the API for adding training data, queuing a training cycle, tracking progress, and making predictions based on the generated model (generated Turi Create models for iOS)
- Developed and deployed GraphQL and RESTful servers; handled authorization through AWS Cognito and custom made solutions; hosted and delivered sensitive user data via S3; scheduled iOS/Android/web push notifications; created a web/SMS communication channel with Twilio
- Built responsive web apps using React; built iOS and Android apps using React Native; tracked user-flow with Google Analytics (Firebase); gave a company talk on PWAs
- Managed live RDS and EB instances with thousands of active users; handled migrations, backups, and deploys

### FULL-STACK WEB DEVELOPER | FREELANCE

Constructed LAMP servers (Linux, Apache, MySQL & PHP) leveraging the PayPal API for recurring and one-time payments

- React frontend with LAMP based servers on shared hosting services
- Handled networking and managed client expectations

### LACOFD | OCEAN LIFEGUARD | PEACE OFFICER

Made imperative decisions in high stress environments, friend to the community, enforced ordinances, first responder

All documents demonstrating accomplishments are available upon request as well as references. Some recommendations and endorsements can be found publicly on my [LinkedIn](https://www.linkedin.com/in/jscul).