

Eric Downey

Software Engineer

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About Me

Programming Node.js, C#, Golang, Java, Android Studio, React Native

Web Related HTML, JavaScript, CSS, Express, Socket.IO, React, Redux, Angular 2+, JSON, HTTP, JWT, OAuth2

Databases Microsoft SQL (Azure), NoSQL (MongoDB), DynamoDB (AWS), Firebase (GCP)

Experience

Full Stack Developer

QwikCut Video & Analytics

Sept 2017 - Apr 2020

- Design a RESTful web application with Node.js, Express, Angular 5, and Bootstrap 3, with an intuitive UI focused on a YouTube-like UX with social media-like interactions and administrative tools; hosted on Heroku
- Integrate a micro Java 8 and Spark REST API utilizing File IO, log4j, JSON, and JWT authorization to handle video compress and uploading with Amazon's AWS tools S3, Lambda, and Media Convert; hosted on EC2
- Migrate an existing Azure Microsoft SQL database seamlessly into a Node.js REST API utilizing Sequelize along with developing and maintaining SQL scripts and complex queries for data analysis
- Develop a companion mobile app for the existing platform using React Native with Redux and Google Material frameworks targeting Android and iOS featuring native video and image capture, strong gesture support, third-party TalkJs services, and Google Firebase cloud messaging for notifications
- Comply with Agile and Scrum software development life cycle methodology and principles
- Create wire-frames, system designs, and mock-ups for proposed projects and update as needed

Smartphone Technician

GizmoTrader

Aug 2016 - Sept 2017

- Evaluated technical problems in a smartphone's software and hardware to determine functionality
- Performed high quality repairs and refurbishment such as replacing a cracked screens or broken buttons
- Accurately documented repairs and part information on repair tracking work orders
- Met and exceeded key performance objectives including service and repair metrics

Education

University of Central Florida

B.S. in Computer Engineering

2012 - 2017

- Designed the QwikBox, a portable remote video capture device, sponsored by QwikCut for Senior Design that incorporated an Intel NUC with Python scripts and a companion Android Studio app remote control
- Developed Knight Go, a campus information guide in Android Studio, as part of five person team that emulated the gameplay and augmented reality of Pokémon Go

Projects

Discord Bot: Developed using Discord's API and Node.js featuring Youtube API integration and DynamoDB database for stat tracking. Running on Raspberry Pi with Python scripts for deployment

Unity 3D Multiplayer Game: Currently in Beta, a cops and robbers-like game featuring voice chat and local p2p connections. Networking achieved using C# websockets and Golang http server for routing. Published on Steam

React PWA Portfolio: Designing a PWA mobile first personal website with React, Redux, Thunk, and Material UI framework featuring projects and development blogs. Hosted on Heroku with Google Analytics