Jacob Szepsy

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JacobSzepsy.codes

EXPERIENCE

PotatoTV | *Remote*   *Aug 2020 – Present*
Principal Engineer
- Responsible for numerous roles including full stack development, DevOps, database administration, and project management including the management of one direct report
- Built and launched v1.0 of React Native app to the iOS app store
- Architected and led conversion of existing API to RESTful standard increasing the overall organization
- Architected and led implementation of JWT tokens to provide user authentication for our API increasing security by 100%
- Architected and led a full backend redesign including a migration from NoSQL to SQL, resulting in up to 160% performance improvements and stronger data integrity
- Architected and led implementation of inhouse chat system using redis, resulting in a twice as stable platform over the existing implementation

NJIT | *Newark, NJ*   *Sep 2020 – Dec 2020*
Capstone Project
- Worked as a team to plan and execute a refactor of SoloSegment's web crawler that helped to analyze and generate analytics for client sites using natural language processing
- Increased readability and maintainability by breaking down existing components into smaller microservices
- Increased overall reliability of the system by implementing Apache Airflow to handle execution

Private Tutor   *Jan 2016 – Dec 2020*
- Helped tutor several people in various CS concepts including web design, java programming, and general programming concepts leading to some students jumping multiple letter grades

NJIT | *Newark, NJ*   *Jan 2019 – May 2019*
Research Assistant
- Studied and programmed population-based stochastic algorithms as part of my job of assisting Dr. Amy Hoover in her work on the JaggySnakes project

Bio Behavioral Health | *Toms River, NJ*   *Sep 2017 – Sep 2018*
System Administrator
- Maintained and upgraded existing computer infrastructure, as well as handled any technical issues
- Reduced the risk of loss of important data by implementing daily backup system
- Improved system performance by modernizing outdated computer systems

EDUCATION

New Jersey Institute of Technology   *2018–2020*
BS Information Technology BS/MS Computer Science | GPA 3.92

Ocean County College   *2016–2018*
AS General Studies Computer Science | GPA 3.45

SKILLS

Languages – Javascript / Typescript, Java, Python, Ruby, Go, HTML, CSS, PHP, R
Frameworks and Tools – Node.js, React / Preact, React Native, Angular, Amazon Web Services, Google Cloud Platform, Azure, Kubernetes, Docker, MySQL, NoSQL, Redis, Stripe, Express.js, Active Record SQL, Sequelize, Firebase, Ruby on Rails, Deno, Ajax, jQuery, RabbitMQ, Apache Airflow
Concepts – iOS development, Android development, CI/CD, Agile, Microservices, Multithreaded programming, Cloud security and identity, Git/Github, Windows, Linux, Billing, Project management

NOTABLE PROJECTS - Full List Available at github.com/JacobSzepsy

Webstore *Ruby on Rails*   *2021*
Webstore framework with stripe integration

React Forums *React.js frontend / Ruby on Rails backend* *2020*
Forums platform that allows users to create and interact with threads on multiple boards

E2E Chat *Java*   *2020*
Chat service that provided end to end encryption for users