Parker Bergen

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Rochester Institute Of Technology

Computer Science Major; Completed 1.5 years
Austin Community College; Currently Enrolled

PROGRAMMING LANGUAGES

- •Ubuntu
- •Java
- •PHP
- •MYSQL
- •C
- •Flutter
- •CSS
- •RobotC
- •HTML
- •LabView
- •JavaScript
- •Python
- •Dart
- •React/Next.js

COMPUTER / APPLICATIONS PROFICIENCY

- •Eclipse, JCreator and Android Studio (JAVA)
- •SolidWorks, 3D Graphical Design
- •Database Management (MySQL)
- •Linux Server IT Specialist (Ubuntu) / Emacs / Terminal
- •Git/ GitHub
- •Drupal and WordPress for Web Design
- •AWS Tools, Google Firebase Tools
- •Game Salad for Apple Apps, App Inventor for Android Apps
- •Microsoft Office (Powerpoint /Word/ Excel)
- •Adobe Photoshop, DreamWeaver for Web Design (HTML)
- •Discord, Slack

WORK EXPERIENCE

March 2021-Current Full Stack Developer, Driver's Alert / LMS Courses

- Helping design and build a course builder in React App with similar feel to Adobe Animate to allow our content team to have a suite of tools and unrestricted ability to build future courses that will be provided through our version 2 course provider
- Designed and developed data analytics database and added graphs and filters to visualize data in a custom concise manner
- Took lead on developing Craft LMS plugin in php to allow for easy calculation of course length based on associated assets cached on Craft server, but originally located in S3 Bucket
- Programmed SCORM standards in React App to allow for LMS providers to run our courses
- Developed AWS Lambda function in python to automatically load balancer Craft ec2 server instance when updated
- Implemented GraphQL queries from Craft server to provide data to React App course provider
- Built a MYSQL user database for our version 2 course provider in AWS RDS

February 2020-March 2021 Full Stack And Mobile Applications Developer (Flutter), National Driver Training

- As the only Mobile Applications Developer in the company, converted iOS & Android native apps into a new single codebase using Flutter (Google's UI toolkit)
- The app I launched on the Apple App and Google Play Stores, allows users to complete their online driver-ed course on a mobile friendly platform
- Developed the app architecture with future scalability, while enabling multiple states to comply with their distinct government requirements (TX, CO, NM, OK, VA, CA)
- Created a data analytics tracking system dashboard to display graphs and logs of customer logins and course usage over a customizable date range
- Implemented student check-in system allowing drivers to scan licenses using their phone, cross-checking validity of data and enabling instructors to efficiently track and complete appointments.
- Created & drove product development schedules, bug tracking, managing risks, resolving customer problems & communicating status to management; Direct on-phone customer support
- Designed and developed a driving instructor management system increasing the instructor productivity by allowing scheduling, tracking and grading of students on the app
- Collaborated with graphics designer, redesigned "look & feel" of NDT's new mobile app making it more client focused
- Supported Backend server database & website using MySQL & PHP: troubleshoot & debugged webpage errors. Updated course content for web pages using PHP, CSS and HTML
- Currently leading server migration; Designed and built a new backend database for scalability and merging of all courses under one system with the ability to transfer existing users seamlessly. Building front-end UI elements that meet new design requirements

Summer 2019 Computer Science Intern, NXP Microcontrollers

- Directed a project team of interns to create a self learning (AI), neural network predictive maintenance engine prototype
- Led software integration using Android and Linux on NXP's i.MX8 hardware platform
- Designed and developed Android native application that allowed the team to view the statistical data collected from our self learning engine model

- Implemented all embedded systems hardware setup, including sensors, BLE connections to the mechanical engine
- Programmed a BLE compatible interface between an app and sensors with Java to access and record remote data in real time
- Presented project results and future improvements to senior executives

Summer 2018-Current Parker Drone Photography
Aerial photography and videography in various commercial applications. FAA licensed for small UAS. Certified official partner to Austin Board of Realtors. Commercial use of photoshop. pdphotography.org

Summer 2017 Cyber Security Intern, Texas Homeland Security—Department of Public Safety
Planning and development tasks associated with the State's Homeland Security Strategic planning. Forensics work and monitoring cyber security events: incident response, containment, investigation, and remediation. Info Assurance: managed firewall, web content filtering, secure email gateways, intrusion prevention and detection systems and proxy services.

LEADERSHIP AND PROGRAMMING ACHIEVEMENTS

2014-2018 Founding Member, STEM Advocacy Conference of Texas (SACOT). Developed the front end website and backend database development in MySQL, Linux and PHP. Represented SACOT in front of Texas Congressional Representatives, including Texas House of Representative Donna Howard (member of the Higher Education Committee), and US Congressman Roger Williams. Advocated for increased government funding and support for STEM-aligned educational activities. http://www.sacot.org/about

2016-2018 Senior Staff Member, Chap Research – from whiteboard to reality. Leader in student mentorship program. Project-based approach to teach both technical skills and "soft skills" such as project management and collaboration. Worked on the front end website and backend database development using MySQL, Linux and PHP to manage robotics outreach events for robotics teams nation-wide.

2016-2018 Robotics Programmer, FRC Team 2468. Programming Lead, also worked with a team on mechanical, electrical, pneumatics, and integration. 1st place Winner of the 2017 Chairman's Award at the Dallas Regional Competition. Division finalist at 2017 World Robotics Championship (over 400 teams). Recipient of the Control Award at two District Championships in 2018. Under strict rules, limited resources, and an intense six-week time limit, FRC teams are challenged to hone teamwork skills in design, build and programming industrial-size robots competing in a complex field game. http://www.frc2468.org/

EXTRACURRICULARS

Current Stealth Project
Co-founder and developer of a robotics project for a residential application. Leading the electrical design and programming. Funded by an angel investor. Targeted for U.S. patent and mass-market.

2018-current Personal Projects. Designed, developed and programmed off market Amazon Alexa controlled light switches. 3D printed parts and assembled electronic components to control residential lights, at a cost below similar market consumer products.

2018-2020 Member of RIT eSports. Captain and Coach of Rainbow Six Siege. Teamwork, leadership and determination; we model ourselves after professional eSports teams. https://www.esportsrit.com