

Nicolas Burnett

☎ (469) 534-2142 | ✉ nicolasandrewburnett@gmail.com | 🏠 nickburnett.me | 📺 NickBurnett | 📄 nicolasaburnett

Education

University of Texas at Dallas

Richardson, TX

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND COMPUTER ENGINEERING 3.95/4.0 GPA

Aug 2020 - May 2023 (Expected)

Skills

Languages & Frameworks Java, C, C++, Python, HTML, CSS, JavaScript, TypeScript, Bash
Platforms & Libraries Git, Linux, MongoDB, ReactJS, NodeJS, ExpressJS, DiscordJS, NGINX, AWS
Relevant Coursework Data Structures and Algorithms, Computer Architecture, Probability and Statistics
Programming in a Unix Environment, Discrete Mathematics

Projects

Meet-Me-At Event Planner

ACM Projects

REACT NATIVE, NODEJS, EXPRESSJS, MONGODB

Aug 2020 - Nov 2020

- Spearheaded and collaborated on a multi-threaded back-end for real-time visual updates within the event planner, supporting 100+ simultaneous devices
- Expanded the multi-threaded back-end with additional supports for database interactions such as optimized querying
- Streamlined and influenced 3 customized login and authentication systems to endorse increased code flexibility and creative freedom
- Engineered and coordinated 10+ front-end hooks for back-end tools integrated with custom network wrappers around Axios, Http, and ExpressJS

Java 2D Game Framework

Personal Project

JAVA, LWJGL, OPENGGL, OPENAL, SOCKET I/O

Dec 2020 - Present

- Developed a synchronized sprite rendering library for 100+ sprite types to ensure compatibility with 15+ game styles
- Conceptualized a system to take advantage of multi-threaded processors, speeding up logical processes
- Applied the JavaFX library to the game framework with support for 10+ modules and tools, simplifying the UI/UX process when dealing with general-purpose interactable visuals
- Refined a work-in-progress network module to allow for multi-player and server-based gameplay, supporting 100+ simultaneous connections

Wide-range Command Line Tools

Personal Project

JAVA, C, C++, PYTHON, BASH

Aug 2020 - Present

- Deployed a sophisticated web-server to distribute 10+ multi-purpose tools live
- Redesigned a customized, multi-function password generator in Python 3 with integrated bash support for DOS and Linux command-line interfaces
- Created a volatile and user-friendly regex matching tool in Python 3 with support for DOS and Linux CLIs
- Streamlined various quality-of-life programs such as customized ANSI terminal editing, color wheels, cross-platform installation scripts, and general improvements to the experience of the Linux CLI

Experience

UTD CS Outreach

Richardson, TX

STUDENT INSTRUCTOR

Aug 2020 - Present

- Trained students in 10+ frameworks, languages, and libraries such as Java, Python and ReactJS
- Educated 50+ students in practical technologies and languages like Java, Python and web stack
- Advised Industry Professionals seeking knowledge in 3+ modern techniques including responsive website development

Student Organizations

Association for Computing Machinery

Richardson, TX

DEVELOPMENT STAFF

Aug 2020 - Present

- Partook in 15+ industry-targeted events and workshops by local industry professionals
- Selected as a developer to maintain and improve the organization's software and technologies

Open-source UTD

Richardson, TX

MEMBER

Aug 2020 - Present

- Attended 10+ open-source and Linux-related lectures and webinars by industry professionals
- Attained knowledge of 5+ basic Unix-based concepts such as command-line interfacing and server concepts