

# Benjamin Scruton

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## EXPERIENCE **Software Developer, Zencity** 2021 – 2023

- Developed Slack-based internal tools including a fully-functional timesheet submission framework, streamlining the process of data retrieval and submission for team members
- Built a Guest Info Portal, allowing hundreds of guests to access reservation information all in one place
- Maintained automated systems to communicate with guests and store and manage company data

## **Chicago Board of Elections I.T. Department (with Mack & Associates)** Feb – Nov 2020

- Configured laptops and other voting equipment for over 2000 precincts across Chicago
- Managed equipment and provided technical support by phone for early voting
- Provided I.T. crisis support on election day to ensure voters across the city were able to cast votes

## **Ph.D. Candidate, Yale University** 2014 – 2019

- Designed a curriculum for full-year Sumerian and Akkadian language classes
- Taught Sumerian and Akkadian to both undergraduate and graduate students, using a variety of resources including reading directly from original Mesopotamian artifacts
- Worked hands-on with artifacts for a 2018 Yale Peabody Museum exhibition of the Yale Babylonian Collection, writing research entries for museum displays and the published catalogue
- Participated in the Megiddo Archaeological Excavation at Tel Megiddo in northern Israel in 2016

## TECHNICAL PROJECTS **Chess Roulette** *JavaScript, Node.js, React, Express, Socket.IO, bcrypt, MongoDB, Mongoose, JWT, Bootstrap*

Single-page application that allows users to play chess against one another in real time [Live site](#) | [GitHub](#)

- Connected React front-end to a back-end REST API built with Express.js and MongoDB
- Wrote move logic in separate JavaScript modules, facilitating development of variant game modes
- Implemented bcrypt and JSON Web Tokens to securely store user password and session information
- Added Socket.IO to show moves from opponents in real time, allowing play without page refreshes
- Styled with Bootstrap and custom CSS, to balance visual consistency with functionality

## **Mahlon (Zencity Slack Bot)** *JavaScript, Node.js, Express, PostgreSQL, Slack Bolt, Knex.js, Tesseract.js, Day.js*

Slack bot to empower employees to do more from within the company's Slack workspace

- Applied Slack Bolt toolkit to expand pre-existing Slack workspace into a front end for Express.js server
- Built timesheet system from scratch, with custom Slack modals for clocking in and out and for managers to review submissions; implemented Day.js to manage international time zones smoothly
- Leveraged Tesseract.js OCR and QR code reader to gather unwieldy lock IDs from image posts
- Routed data to PostgreSQL via Knex.js query builder, and to Notion via its official JavaScript SDK
- Organized code into Git submodules to keep relevant code together for easier testing and development

## **Zencity Guest Info Portal** *JavaScript, Node.js, React, Express, PostgreSQL, Knex.js, CryptoJS, Tailwind CSS*

Online portal for guests to access all reservation information in one location

- Created Express.js back end capable of returning all required booking data in a single organized JSON
- Secured login data with server-side AES encryption, ensuring React client only stored encrypted data
- Enabled automatic login URL using encrypted data, allowing guests to log on by clicking a link
- Styled with custom Tailwind CSS components to match Zencity's pre-existing style guide

## EDUCATION **Coding Dojo** Full stack developer certificate in Python, MERN, and Java; highest honors in each 2021

**Yale University** Masters of Philosophy, Near Eastern Languages & Civilizations. 2018  
B.A., History of Art / Near Eastern Languages & Civilizations. 2014