# **Erin Dunkley**

# **Software Engineer**

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#### **TECHNOLOGIES**

Languages | Python, JavaScript (AJAX, JSON), HTML, CSS, SQL Frameworks & Libraries | Flask, Bootstrap, Jinja, React Database & Industry Tools | PostgreSQL, Git, GitHub, Command Line Tools/Software | GMID-X (genotyping software), CODIS (SQL database)

#### **EDUCATION AND TRAINING**

# Hackbright Academy, San Francisco, CA

March 2023

Software Engineering Fellowship - Accelerated, 12-week, software engineering program

## University of Florida, Gainesville, FL

Aug 2017

Master of Science, Pharmacy with an emphasis in Forensic DNA & Serology

# Grossmont College, San Diego, CA

**Dec 2012** 

Certificate in Forensic Technology

## San Diego State University, San Diego, CA

May 2004

Bachelor of Science, Biology with an emphasis in Cellular & Molecular Biology

#### **PROJECT**

## **TO-DO: Task Organization for Dwelling Optimization**

https://github.com/edunkpatrick/TO-DO

A task-tracking Flask app for communicating status of shared tasks within a household. Members of a household can assign themselves or other housemates a task, track completion of tasks, visualize each member's contributions utilizing Chart JS, and send text reminders with Twilio SMS.

#### **CERTIFICATIONS**

Lean Six Sigma Green Belt

Quality Assurance Standards and Auditor Training Curriculum for Forensic DNA Testing

#### **PROFESSIONAL EXPERIENCE**

# Alameda County Sheriff's Office, Oakland, CA

Criminalist III March 2018-Present

- CODIS Administrator
- Examine evidence for biological material, perform STR DNA typing analysis, report results, and testify to results in court
- Document crime scene and vehicle examinations, collect evidence, and testify to results in court
- Completed validation for 3-person mixture interpretation

Qualified FBI QAS Auditor and ANAB Technical Assessor ISO 17025:2017

### **Acting Supervising Criminalist**

#### March 2017-Sept 2017

- Supervised 3 Criminalists in the Forensic Biology Unit
- Managed case assignments and submitted monthly reports to the Laboratory Director
- Completed administrative reviews of case files and reports
- Implemented daily scrum meetings to track progress of casework and validation projects

#### **Criminalist II**

#### Nov 2016 - March 2017, Sept 2017-March 2018

- Examined evidence for biological material, perform STR DNA typing analysis, report results, and testify to results in court
- Documented crime scene and vehicle examinations, collect evidence, and testify to results in court
- Alternate CODIS Administrator

# <u>San Francisco Police Department, San Francisco, CA</u> Criminalist II

Aug 2011 - Oct 2016

- Decreased turnaround time by 62% by implementing Lean Six Sigma methods
- Participated in daily scrum meetings to ensure efficient workflow of casework
- Examine evidence for biological material, perform STR DNA typing analysis, report results, and testify to results in court
- Performed the validation of a silica-based nucleic acid purification method on a robotic extraction platform, a validation of centrifugal concentrators for concentration of nuclear DNA, and a validation utilizing cRNA for improved extraction of low-level samples

# San Diego County Sheriff's Department, San Diego, CA Criminalist I

May 2008 - Aug 2011

- Examined evidence for biological material, perform STR DNA typing analysis, report results, and testify to results in court
- Performed quality control testing of reagents for the Forensic Biology section
- Stayed current with continuing education by attending professional conferences and meetings

#### **Laboratory Assistant**

**Aug 2005 - May 2008** 

- Performed quality control of reagents and maintenance of instruments
- Tracked inventory of supplies and kept accurate records of orders placed
- Completed validations for silica-based nucleic acid purification methods using robotic extraction platforms

#### **PRESENTATIONS**

Identification of the Oakland warehouse fire victims: CAC Spring seminar, May 2017

Identification of the Oakland warehouse fire victims: Applied Biosystems HID University, January 2017

Poster: Comparison of Three 6-dye STR DNA Typing Kits: ISHI Conference, October 2015

Improving DNA Extraction Efficiency with Robotics: Qiagen Forensic Leadership Summit, June 2015

Evidence Collection: County of San Diego Animal Control Academy, August 2010 Evidence Collection: County of San Diego Animal Control Academy, August 2009

# **ACTIVITIES/INTERESTS**

Creating various containers out of clay on the pottery wheel.